

# 15" OPEN-END WIDE-BELT SANDER MODEL G9983 INSTRUCTION MANUAL



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WARNING

- Lead from lead-based paints.
- Crystalline silica from bricks, cement, and other masonry products.
- Arsenic and chromium from chemically treated lumber.

Your risk from these exposures varies, depending on how often you do this type of work. To reduce your exposure to these chemicals: work in a well ventilated area, and work with approved safety equipment, such as those dust masks that are specially designed to filter out microscopic particles.

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# **SECTION 1: SAFETY**

# 

## For Your Own Safety Read Instruction Manual Before Operating This Equipment

The purpose of safety symbols is to attract your attention to possible hazardous conditions. This manual uses a series of symbols and signal words which are intended to convey the level of importance of the safety messages. The progression of symbols is described below. Remember that safety messages by themselves do not eliminate danger and are not a substitute for proper accident prevention measures.



Indicates an imminently hazardous situation which, if not avoided, <u>WILL</u> result in death or serious injury.

**AWARNING** Indicates a potentially hazardous situation which, if not avoided, <u>COULD</u> result in death or serious injury.

Indicates a potentially hazardous situation which, if not avoided, <u>MAY</u> result in minor or moderate injury. It may also be used to alert against unsafe practices.

NOTICE

This symbol is used to alert the user to useful information about proper operation of the equipment.

# 

# **Safety Instructions For Power Tools**

- 1. KEEP GUARDS IN PLACE and in working order.
- 2. REMOVE ADJUSTING KEYS AND WRENCHES. Form habit of checking to see that keys and adjusting wrenches are removed from tool before turning on.
- **3. KEEP WORK AREA CLEAN**. Cluttered areas and benches invite accidents.
- 4. NEVER USE IN DANGEROUS ENVI-RONMENT. Do not use power tools in damp or wet locations, or where any flammable or noxious fumes may exist. Keep work area well lighted.

- 5. KEEP CHILDREN AND VISITORS AWAY. All children and visitors should be kept at a safe distance from work area.
- 6. MAKE WORKSHOP CHILD PROOF with padlocks, master switches, or by removing starter keys.
- 7. NEVER FORCE TOOL. It will do the job better and safer at the rate for which it was designed.
- 8. USE RIGHT TOOL. Do not force tool or attachment to do a job for which it was not designed.

# **A**WARNING Safety Instructions For Power Tools

9. USE PROPER EXTENSION CORD. Make sure your extension cord is in good condition. Conductor size should be in accordance with the chart below. The amperage rating should be listed on the motor or tool nameplate. An undersized cord will cause a drop in line voltage resulting in loss of power and overheating. Your extension cord must also contain a ground wire and plug pin. Always repair or replace extension cords if they become damaged.

3					
	LENGTH				
AMP RATING	25ft	50ft	100ft		
0-6	18	16	16		
7-10	18	16	14		
11-12	16	16	14		
13-16	14	12	12		
17-20	12	12	10		

Minimum Gauge for Extension Cords

10. WEAR PROPER APPAREL. Do not wear loose clothing, gloves, neckties, rings, bracelets, or other jewelry which may get caught in moving parts. Non-slip footwear is recommended. Wear protective hair covering to contain long hair.

10

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No

21-30

- 11. ALWAYS USE SAFETY GLASSES. Also use face or dust mask if cutting operation is dusty. Everyday eyeglasses only have impact resistant lenses, they are NOT safety glasses.
- **12. SECURE WORK.** Use clamps or a vise to hold work when practical. It's safer than using your hand and frees both hands to operate tool.
- **13. NEVER OVERREACH.** Keep proper footing and balance at all times.

- 14. MAINTAIN TOOLS WITH CARE. Keep tools sharp and clean for best and safest performance. Follow instructions for lubricating and changing accessories.
- **15. DISCONNECT TOOLS** before servicing and changing accessories, such as blades, bits, cutters, and the like.
- 16. REDUCE THE RISK OF UNINTENTION-AL STARTING. Make sure switch is in off position before plugging in. Also, the magnetic switch on this machine may start if the switch gets bumped hard enough.
- **17. USE RECOMMENDED ACCESSORIES.** Consult the owner's manual for recommended accessories. The use of improper accessories may cause risk of injury.
- **18. CHECK DAMAGED PARTS.** Before further use of the tool, a guard or other part that is damaged should be carefully checked to determine that it will operate properly and perform its intended function. Check for alignment of moving parts, binding of moving parts, breakage of parts, mounting, and any other conditions that may affect its operation. A guard or other part that is damaged should be properly repaired or replaced.
- **19. NEVER LEAVE TOOL RUNNING UNAT-TENDED. TURN POWER OFF.** Do not leave tool until it comes to a complete stop.
- **20. NEVER USE UNDER THE INFLUENCE** of alcohol or drugs, or when tired.
- 21. NEVER ALLOW UNSUPERVISED OR UNTRAINED PERSONNEL TO OPER-ATE THE MACHINE. Make sure any instructions you give in regards to the operation of the machine are approved, correct, safe, and clearly understood.

# **A**WARNING

# Additional Safety Instructions For The Wide-Belt Sander

- **DO NOT** allow anyone to stand at the outfeed end when feeding your stock.
- **DO NOT** jam workpiece into the machine during operation. Firmly grasp the workpiece in both hands and ease it into the machine using light pressure.
- **DO NOT** wear loose clothing while operating this machine. Roll up or button sleeves at the cuff.
- **DO NOT** sand any stock thinner than 1/8". **DO NOT** sand stock shorter than 9"
- **DO NOT** attempt to sand thin stock by using a "dummy" board under your work-piece.
- **DO NOT** place hands near, or in contact with, sanding belts during operation.
- **DO NOT** allow fingers to get pinched between board and conveyor belt during operation. This may pull the operator's hand into the machine and cause serious injury or death!
- ALWAYS WEAR A DUST MASK in addition to using a dust collector. This machine produces wood dust that may cause allergic reactions or respiratory problems.

# 

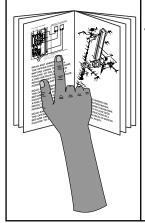
As with all power tools, there is danger associated with Wide-Belt Sanders. Accidents are frequently caused by lack of familiarity or failure to pay attention. Use this tool with respect and caution to lessen the possibility of operator injury. If normal safety precautions are overlooked or ignored, serious personal injury may occur.

- **NEVER** leave the machine running unattended.
- **NEVER** operate the sander without an adequate dust collection system in place and operating correctly.
- **NEVER** operate sander with the access doors open.
- ANY PROBLEM, with the exception of conveyor belt tracking, that is concerned at all with any moving parts or accessories must be investigated and corrected with the power disconnected and after all moving parts have come to a complete stop. Never attempt to adjust conveyor belt tracking when the sanding belts are engaged.
- **REPLACE** sanding belt when it becomes worn.
- **ALWAYS** inspect board stock for nails, staples, knots, and other imperfections that could be dislodged and thrown from the machine during sanding operations.
- **MAKE SURE** all operators have read and understand this manual before allowing them to use the sander. This includes employees, students and family!

# 

Operating this equipment has the potential for creating flying debris which can cause eye injury. Always wear safety glasses or goggles when operating equipment. Everyday glasses or reading glasses only have impact resistant lenses, they are not safety glasses. Be certain the safety glasses you wear meet the appropriate standards of the American National Standards Institute (ANSI).

# **SECTION 2: INTRODUCTION**



# 

Read the manual before assembly and operation. Become familiar with the machine and its operation before beginning any work. Serious personal injury may result if safety or operational information is not understood or followed.

We are proud to offer the Grizzly Model G9983 Wide-belt Sander. Your machine is part of a growing Grizzly family of fine woodworking machinery. When used according to the guidelines set forth in this manual, you can expect years of trouble-free, enjoyable operation and proof of Grizzly's commitment to customer satisfaction.

With its 15" open end, the Model G9983 has the capability to sand a 30" wide workpiece in two passes. This machine also features a 5 HP sanding belt motor and a 1/4 HP feed motor, independent conveyor and sanding belt motor control, pneumatic belt tensioning and tracking, two rubber rollers, a load meter, a safety shut-off bar, and a 5" dust port.

We are also pleased to provide this manual with the Model G9983. It was written to guide you through assembly, review safety considerations, and cover general operating procedures. It represents our effort to produce the best documentation possible. If you have any comments regarding this manual, please write to us at the address below:

> Grizzly Industrial, Inc. <sup>c</sup>/<sub>o</sub> Technical Documentation P.O. Box 2069 Bellingham, WA 98227-2069

Most important, we stand behind our machines. If you have any service questions or parts requests, please call or write us at the location listed below.

> Grizzly Industrial, Inc. 1203 Lycoming Mall Circle Muncy, PA 17756 Phone: (570) 546-9663 Fax: (800) 438-5901 E-Mail: techsupport@grizzly.com Web Site: http://www.grizzly.com

The specifications, drawings, and photographs illustrated in this manual represent the Model G9983 as supplied when the manual was prepared. However, owing to Grizzly's policy of continuous improvement, changes may be made at any time with no obligation on the part of Grizzly. For your convenience, we always keep current Grizzly manuals available on our website at <u>www.grizzly.com</u>. Any updates to your machine will be reflected in these manuals as soon as they are complete.

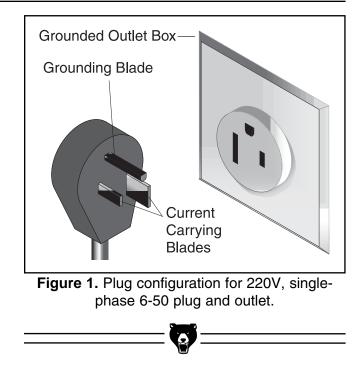
# **SECTION 3: CIRCUIT REQUIREMENTS**

# **220V Single-Phase**

The Model G9983 features a 5 HP, 220V singlephase motor. This motor will safely draw about 30 amps under load. The Model G9983 also features a <sup>1</sup>/<sub>4</sub> HP feed motor that draws approximately 1.8 amps under load. Total amperage draw for this machine is approximately 32 amps under load.

Use a 35 amp circuit breaker for the Model G9983. Make sure the wiring in your circuit is rated to handle the amperage draw from your machine. If frequent circuit failure occurs when using the sander, contact our Service Department. The sander must be connected to its own dedicated circuit and should not share a circuit with any other machine. A standard 2-pole breaker is necessary for use with the sander.

We recommend using a NEMA-style 6-50 plug and outlet (similar to the one shown in **Figure 1**) for the Model G9983. You may also "hard-wire" the sander directly to your panel, provided you place a disconnect near the machine. Check the electrical codes in your area for specifics on wiring requirements.



# Grounding

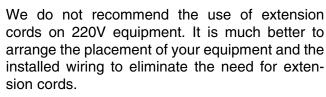


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This equipment must be grounded. Verify that any existing electrical outlet and circuit you intend to plug into is actually grounded. Under no circumstances should the grounding pin from any three-pronged plug be removed. Serious injury may occur.

In the event of an electrical short, grounding reduces the risk of electric shock by providing a path of least resistance to disperse electric current. This tool is equipped with an electric cord that has an equipment-grounding conductor which must be properly connected to a grounding plug. The plug must be plugged into a matching outlet that is properly installed and grounded in accordance with all local codes and ordinances.

Improper connections of the electrical-grounding conductor can result in the risk of electric shock. The conductor with green or green and yellow striped insulation is the electrical-grounding conductor. If repair or replacement of the electric cord or plug is necessary, do not connect the equipment grounding conductor to a live terminal.



**Extension Cords** 



The Model G9983 comes prewired for 220 volt operation. Wiring diagrams are provided at the back of this manual should it be necessary to repair or revise the wiring. Always consult a qualified electrician when doing any electrical work on this equipment.



## 

We have covered some basic electrical requirements for the safe operation of your Sander. These requirements are not necessarily comprehensive. You must be sure that your particular electrical configuration complies with local and state codes. Ensure compliance by checking with your local municipality or a licensed electrician.

# **SECTION 4: MACHINE FEATURES**

# **External Features**

To help you understand the set up and operation instructions, we recommend that you become familiar with the basic features of your new sander.

Please match up the list below with the letters in **Figure 2** to identify the external sander components.

- A. Control Panel
- B. Table Extension
- C. Conveyor Height Handwheel
- D. Conveyor Height Gauge
- E. Dust Port
- F. Load Meter
- G. Emergency Stop Bar
- H. Pressure Regulator

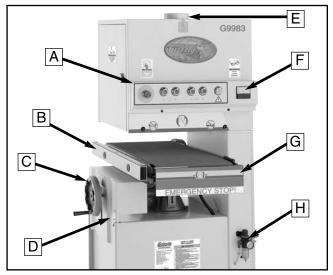


Figure 2. These are the basic external components of the sander.

# **Control Panel**

The control panel houses the main power switch, the feed belt *ON/OFF* buttons and the sanding belt *ON/OFF* buttons. Please refer to **Figure 3** to identify these controls.

- **A.** Main Power ON / Emergency STOP switch.
- B. Sanding Belt OFF button.
- C. Sanding Belt ON button.
- D. Feed Belt OFF button.
- E. Feed Belt ON button.
- F. Power Indicator Light

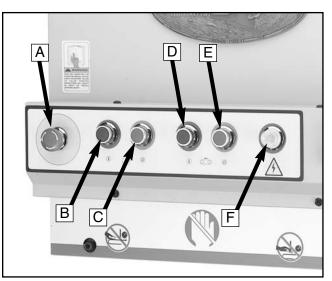


Figure 3. These are the main power controls.

## **Access Doors**

There are access doors located on each side of the sander. Throughout the manual, we refer to these doors as the "left-hand access door" and the "right-hand access door." These terms are referenced as if you are facing the front of the machine.

Figure 4 shows the layout behind the left-hand access door.

- A. Limit Switch
- B. Sanding Belt Tension Switch
- C. Platen Adjustment Knob

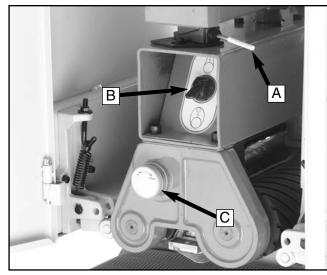


Figure 4. These items are behind the left-hand access door.

Figure 5 shows the layout behind the right-hand access door.

- A. Oscillating Roller
- B. Oscillation Air Filter
- C. Limit Switch
- D. Oscillation Return Valve
- E. Oscillation Speed Valve
- F. Oscillation Timing Knob

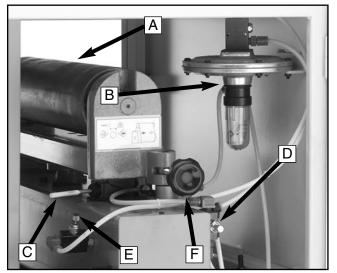
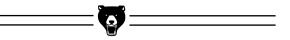


Figure 5. These items are behind the right-hand access door.



# **SECTION 5: SET UP**

# Unpacking

The Model G9983 Wide-belt Sander is shipped from the manufacturer in a carefully packed carton. If you discover your machine is damaged after you have signed for delivery, and the truck and driver are gone, you will need to file a freight claim with the carrier. Save the containers and all packing materials for possible inspection by the carrier or its agent. Without the packing materials, filing a freight claim can be difficult. *If you need assistance determining whether you need to file a freight claim, or with the procedure to file one, please contact our Customer Service.* 

# 

The Model G9983 is a heavy machine approx. 1000 lb. DO NOT over-exert yourself while unpacking or moving your machine. You will need assistance and power equipment. Serious personal injury may occur if safe moving methods are not followed.

When you are completely satisfied with the condition of your shipment, you should inventory its parts.



toward the end of this manual. For easier assembly, or to identify missing parts, please refer to the detailed illustrations at the end of the manual.

## **Piece Inventory**

After all the parts have been removed from the carton, you should have:

- Sanding Unit
- Tool Box
- Combo Wrench 8/10MM
- Combo Wrench 11/13MM
- Combo Wrench 12/14MM
- Combo Wrench 17/19MM
- Combo Box-Wrench 30/37MM
- Phillips Screwdriver
- Hex Wrench Set
- Platen Puller
- Platen
- Door Handle (2)
- Handwheel Handle
- Sanding Belt #180
- Sanding Belt #240

In the event that any non-proprietary parts are missing (e.g. a nut or a washer), we would be glad to replace them, or for the sake of expediency, replacements can be obtained at your local hardware store. Loose parts in the sander crate (not including hardware) are shown in **Figure 6**.

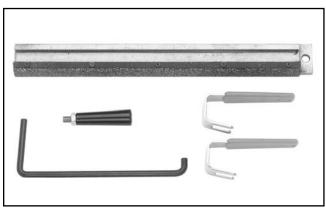
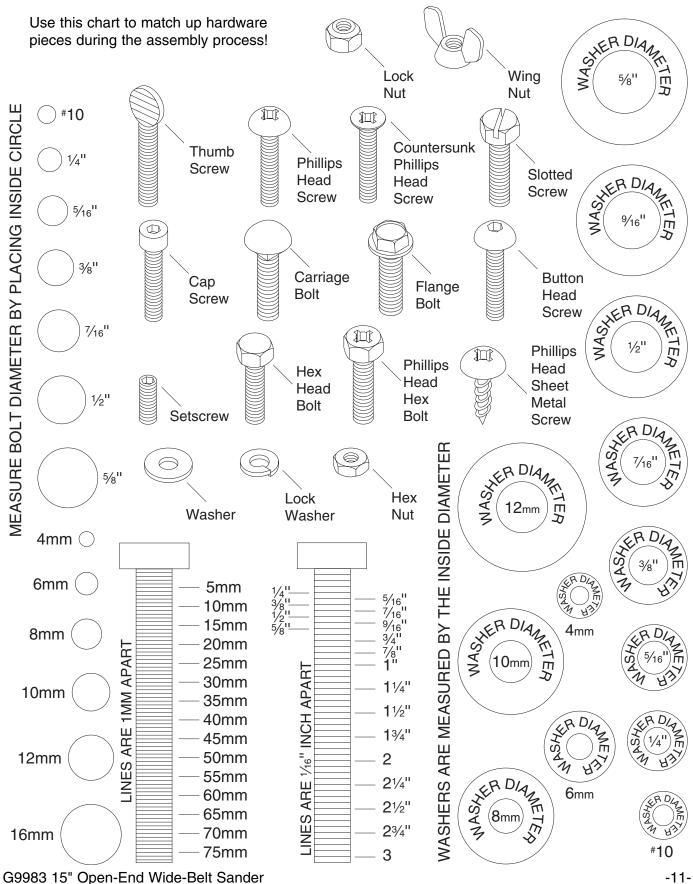


Figure 6. Loose parts (not including hardware) for the Model G9983.

# **Hardware Recognition Chart**



-11-

# Clean Up

The unpainted surfaces are coated with a waxy oil to protect them from corrosion during shipment. Remove this protective coating with a solvent cleaner or citrus-based degreaser such as Grizzly's G7895 Degreaser. To clean thoroughly, some parts may need to be removed. For optimum performance from your machine, make sure you clean all moving parts or sliding contact surfaces that are coated. Avoid chlorine-based solvents as they may damage painted surfaces should they come in contact. Always follow the manufacturer's instructions when using any type of cleaning product.



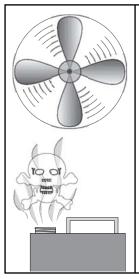
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Do not use gasoline or other petroleum-based solvents to clean with. They have low flash points which make them extremely flammable. A risk of explosion and burning exists if these products are used.



## 

Do not smoke while using solvents. A risk of explosion or fire exists and may result in serious personal injury.



### 

Many of the solvents commonly used to clean machinery can be toxic when inhaled or ingested. Always work in wellventilated areas far from potential ignition sources when dealing with solvents. Use care when disposing of waste rags and towels to be sure they do not create fire or environmental hazards.

### FLOOR LOAD

Your new wide-belt sander represents a large weight load in a moderate sized footprint. Most shop floors will be adequate for the weight of the wide-belt sander; however, some floors may require additional support. Contact an architect or structural engineer if you have any question about the ability of your floor to handle the weight.

### WORKING CLEARANCES

Working clearances can be thought of as the distances between machines and obstacles that allow safe operation of every machine without limitation. Consider existing and anticipated machine needs, size of material to be processed through each machine, and space for auxiliary stands and/or work tables. Also consider the relative position of each machine to one another for efficient material handling. Be sure to allow yourself sufficient room to safely run your machines in any foreseeable operation.

### LIGHTING AND OUTLETS

Lighting should be bright enough to eliminate shadow and prevent eye strain. Electrical circuits should be dedicated or large enough to handle combined motor amp loads. Outlets should be located near each machine so power or extension cords are not obstructing high-traffic areas. Be sure to observe local electrical codes for proper installation of new lighting, outlets or circuits.



# **Beginning Assembly**

Most of your new wide-belt sander has been assembled at the factory, but some setup is required after delivery. We have organized the setup process into steps. Please make sure the sander is placed in its final position in your shop and follow along in the order presented in this section.



# 

Keep loose clothing out of the way of machinery and keep hair pulled back.



### 

Disconnect power to the machine when performing any setup or assembly. Failure to do this may result in serious personal injury.



# AWARNING

Wear safety glasses during the entire setup process. Failure to comply may result in serious personal injury.

Some metal parts may have sharp edges on them after they are formed. Please examine the edges of all metal parts before handling them. Failure to do so could result in injury.

### To install the handwheel handle:

- 1. Thread the handle into the handwheel as shown in Figure 7.
- 2. After handle is completely threaded down, tighten the jamnut so the handle will not come loose. Make sure to leave the plastic sleeve loose enough to rotate when you crank the handwheel.

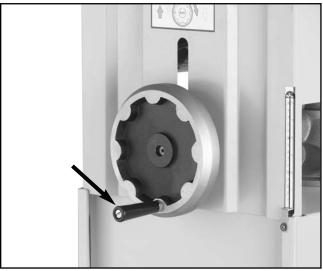
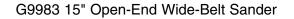


Figure 7. Install handle onto handwheel.

# NOTICE

The waxy grease must be completely cleaned from the table column for smooth table height adjustments.



# Platen

The housing for the platen can be accessed by opening the door on the left-hand side of the machine.

A graphite sheet is mounted on the platen. Before installing, make sure that the graphite sheet is mounted on the left-hand side of the platen, as it will be inserted. **Figure 8** shows the platen being installed correctly.

The direction of the graphite sheet is important because it must wrap around the platen in the same direction as the sanding belt rotates. If not, the sanding belt will unwrap the graphite sheet, exposing the sanding belt to the metal body of the platen. Note: the graphite sheet on the platen is considered a "consumable" item, similar to the sanding belts, and normal wear and tear from machine operation is not covered under warranty. For additional information on the platen, turn to **page 33**.

### To insert the platen:

- 1. Line up the platen dovetail with the housing so it is positioned as described above.
- 2. Slide the platen into the housing as far as it can go.

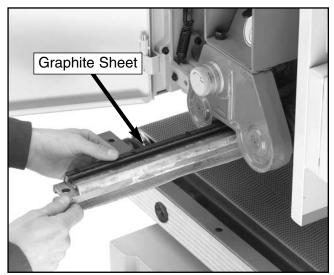


Figure 8. Install the platen with the graphite sheet on the left-hand side.

The platen must now be set even with the sanding rollers.

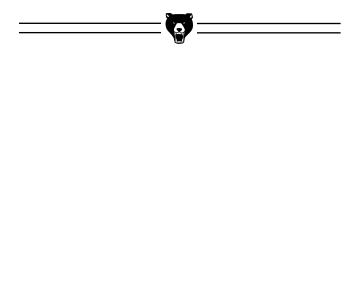
### To set the platen even with the belt rollers:

- 1. Lower the conveyor table as far as it will go.
- 2. Open the access door on the left-hand side and locate the platen adjustment knob shown in Figure 9.



Figure 9. Use this knob to raise/lower the platen.

**3.** Place a straightedge across both lower belt rollers and rotate the adjustment knob until the platen barely touches the straightedge. *The platen should now be set even with the belt rollers.* 



# Air Hose

The air hose connection is located at the regulator on the front of the machine.

#### To connect the air hose:

- **1.** Fit the hose over the regulator nozzle.
- 2. Secure the hose with a hose clamp as shown in **Figure 10** and turn on your air compressor.
- **3. Regulate the air pressure to 75 PSI.** This is the normal operating pressure for the Model G9983.



Figure 10. Secure air hose with a hose clamp.

## NOTICE

DO NOT exceed 75 lb. of air pressure. Damage to the machine components may result.

# NOTICE

The main shut off valve should remain closed until air pressure is needed. This will reduce wear and tear on the air system components. The Model G9983 is designed for 16" x 48" sanding belts.

### To install a sanding belt:

- 1. Open the left-hand side door for access.
- 2. Make sure the greasy protective coating has been cleaned from the metal belt roller before installing sanding belt.
- **3.** Fit the sanding belt completely over the three sanding rollers as shown in **Figure 11**. The belt will move counter-clockwise during rotation—make sure that the arrows on the inside of the belt point in the direction of rotation.

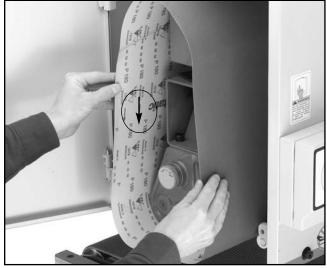


Figure 11. Place belt over the three belt rollers to install. Make sure arrows on inside of belt point in the direction of rotation.

# **Sanding Belt Tension**

The sanding belt tension is controlled by a switch located inside the upper portion of the machine (see **Figure 12**). To locate it, open the access door on the left-hand side of the sander.

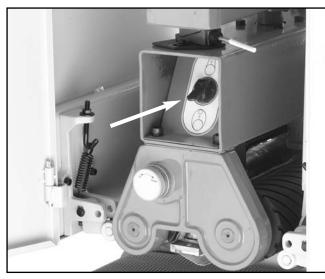


Figure 12. This is the belt tension switch.

### To Tighten Belt Tension:

Flip the switch up. The vertical cylinder will automatically tighten the top roller to the correct tension.

### To Loosen Belt Tension:

Flip the switch down. The vertical cylinder will automatically loosen the belt tension for belt removal.

# NOTICE

The belt tension switch is part of the air control system. This means the machine must have air pressure for the switch to work correctly.

## NOTICE

Always tighten belt before starting sander!

# **Pressure Rollers**

# 

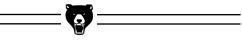
Always keep the pressure rollers set below the level of the sanding roller. If the pressure rollers are even, or higher than the sanding roller, the wood WILL be propelled from the sander at a high rate of speed. This situation could cause serious personal injury.

The pressure rollers have been set at the factory, but for increased personal safety, you should verify that they are below the sanding belt.

### To check the feed pressure:

- 1. Disconnect the sander from the power source!
- 2. Place a piece of scrap wood of uniform thickness across the conveyor so it spans both front and rear pressure rollers at the same time.
- **3.** Make sure the platen is even with the sanding belt rollers.
- 4. With the air pressure connected, the sanding belt installed, and the belt tension switch *ON*, slowly raise the conveyor and verify that the board touches both pressure rollers before it touches the sanding belt.

If the board does not touch both pressure rollers before it touches the sanding belt, then the pressure rollers must be adjusted before operation. See Section 8: Service Adjustments for step-by-step instructions on how to do this.

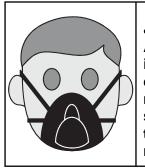


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DO NOT operate the Model G9983 without an adequate dust collection system. This machine creates substantial amounts of wood dust while in operation. Failure to use a dust collection system may result in short and long-term respiratory illness.

The dust collection port is located on top of the sander and measures 5" in diameter. It will be necessary to attach a 5" dust collection pipe over this port before operation. If you have rigid ducts in your dust collection system, we recommend that you connect the ducts to your sander with flexible hose. The flex-hose easily attaches with a 5" hose clamp and it absorbs any movement that may occur during operation. Please refer to the Grizzly catalog for current price and ordering information.

Your dust collector must be able to move 800-1200 CFM at the Wide-belt Sander. If you have a remotely located dust collector, or if you are operating more than one machine at a time, ensure that your dust collector has the capacity and power to meet this requirement. A fine layer of dust may be present on your stock as it comes out of the sander. This is normal.



Always wear a dust mask in addition to using a dust collector. Dust masks filter out the smaller particles of dust that dust collectors cannot trap. Once the assembly is complete and the adjustments are done to your satisfaction, you are ready to test run the sander.

### Before you test run your machine:

- 1. Read back through Section 1: Safety Instructions, Section 4: Assembly, and the previous instructions in this section to make sure that all precautions have been taken for safe operation.
- 2. Make sure the machine is connected to an air compressor and the pressure gauge on the sander reads 75 PSI.
- **3.** Make sure that any tools or foreign objects have been removed from the machine.
- 4. Last but not least, make sure the wiring is correct. Did you follow the instructions from *Section 2: Circuit Requirements*? If you are not confident with the wiring, go back and double check that all precautions have been taken to ensure safety to the operator and the circuit. When you are confident, connect the machine to the power source. The power indication light on the control panel should light up.

# 

DO NOT attempt to investigate or adjust any features of the machine while it is running. Wait until the machine is turned off, unplugged and all working parts have come to a rest before you do anything! Failure to do so could result in severe personal injury.

To test run the sander:

1. Turn on the power supply at the main panel.



**A**CAUTION Long term exposure to this machine during operation may cause hearing loss. Wear approved hearing protection to minimize this risk!

2. Start both the sanding belt and the feed belt, making sure your finger is poised over the *STOP* button, just in case there is a problem. The wide-belt sander should run smoothly, with little or no vibration or abnormal rubbing noises. It is normal, however, for the air operated tracking to make a rhythmic back and forth noise.

Strange or unnatural noises should be investigated and corrected before operating the machine further. To avoid injury or damage to the machine, **DO NOT** attempt to make adjustments to the machine without turning it off and unplugging it from its power source.

If noises occur that cannot be found by visual inspection, feel free to contact our Service Department for help.



## Recommended Adjustments



### **AWARNING** Disconnect power to the

Disconnect power to the machine when performing any adjustments. Failure to do this may result in serious personal injury.

For your convenience, the adjustments listed below have been performed at the factory and no further setup is required to operate your machine.

However, because of the many variables involved with shipping, we recommend that you at least check the following adjustments to ensure the best possible results from your new machine.

All of these adjustments are covered in step-bystep detail in *Section 8: Service Adjustments*.

### Recommended adjustment checklist:

- Pressure Rollers
- Oscillation Timing
- Oscillation Speed
- Oscillation Return
- Limit Switch Position
- Feed Belt Tension
- Feed Belt Tracking
- V-Belt Tension

# **SECTION 6: OPERATIONS**



# WARNING

Keep loose clothing out of the way of machinery and keep hair pulled back during operations.



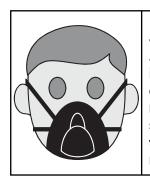
## 

Disconnect power to the machine when performing any maintenance or adjustments. Failure to do this may result in serious personal injury.



### 

Wear safety glasses during the entire operation process. Failure to comply may result in serious personal injury.



# Always wear a dust mask

in addition to using a dust collector. Dust masks filter out the smaller particles of dust that dust collectors cannot trap.

## NOTICE

The following section was designed to give instructions on the basic operations of this wide-belt sander. However, it is in no way comprehensive of every wide-belt sander application. WE STRONGLY RECOMMEND that you read books, trade magazines, or get formal training to maximize the potential of your wide-belt sander.

# **Before Starting**

Before beginning any work with your machine, make sure you have read through this entire manual. Your safety while running this machine absolutely depends on your familiarity and compliance with the information in this manual.



# **Choosing Sandpaper**

The Model G9983 takes 16"W x 48"L sanding belts.

The grit you choose will depend on the type of work, the species of wood and the stage of finishing. Below is a chart that groups abrasives into different classes and shows which grits fall into each class. We recommend using aluminum oxide for best results.

Grit	Туре
60	Coarse
80-100	Medium
120-150	Fine

The general rule of thumb is to sand a workpiece with progressively higher grit numbers, with no one grit increase of more than 50.

Ultimately, the type of wood you use and your stage of finish will determine the best grit types to install on your sander.



# **Conveyor Height**

Conveyor height is controlled by turning the handwheel shown in **Figure 13**. A scale is located near the handwheel for gauging conveyor movement. The scale is marked in millimeters and inches. **Figure 14** demonstrates how the handwheel movement affects the conveyor.

After you have moved the conveyor to the desired height, lock it in place with the conveyor lock handle shown in **Figure 13**.

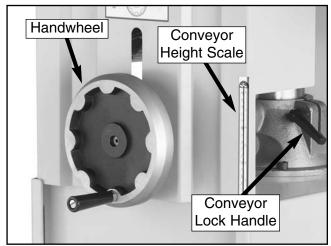
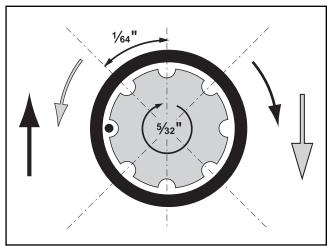


Figure 13. The handwheel moves the conveyor and the scale tells you how far the conveyor moved.



**Figure 14.** This illustration shows how the handwheel moves the conveyor.

# **Feed Belt Speed**

The feed belt motor (shown in **Figure 15** with the cover removed) controls the speed of the feed belt. The Model G9983 features speeds of 13.1 FPM and 16.4 FPM.

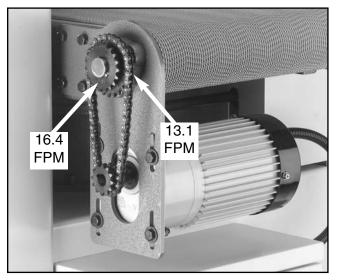


Figure 15. This is the feed belt motor. Place the chain on either of the sprockets and the feed belt will travel at the speed shown.

### To change feed belt speeds:

- 1. Unplug the sander!
- 2. Remove the cap screw that secures the feed belt motor cover.
- **3.** Loosen the for motor mount bolts so that the motor will slide up enough to get the chain off the sprockets.
- 4. Determine which speed is best for your application and place the chain on either set of the sprockets shown in **Figure 15**.
- 5. Replace the motor cover and secure it with the cap screw.

# Load Meter

# Operation

The load meter shown in **Figure 16** displays the current amperage draw of the sanding belt motor. The needle rises when you increase the load on the sanding belts and decreases when you decrease the load. Use this meter to avoid overloading your machine with too heavy of a cut.

#### NEVER exceed 30 amps—this is the maximum that your machine can safely handle!

Since various types of stock will react differently to various loads, use trial-and-error to determine the best settings for your applications. As a general rule, always start with a small load and work your way up. DO NOT push your machine to its maximum load; instead, use multiple passes or install a coarser grit paper.

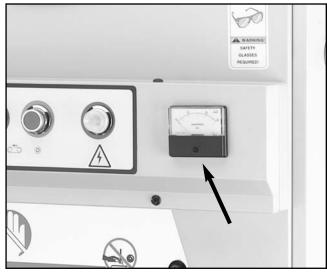


Figure 16. This is the load meter.



Under most sanding conditions, a normal cut is no more than .5mm (approx. <sup>1</sup>/<sub>64</sub>"). This depth can be achieved by <sup>1</sup>/<sub>8</sub>th turn of the conveyor height handle. Attempts to remove too much can cause jamming, wood burning, rapid paper wear or tearing, poor finish and belt slippage. For each pass, turn the stock 180° to ensure an even cut.

# 

Make sure any stock that you run through the sander is clean and free of any defects or foreign materials that might damage the sanding or conveyor belt.

### NOTICE

We strongly recommend sending wide stock through the sander two or three times after the correct height has been established. This is an important step to prevent burning your wood or ruining sandpaper.

The following is the correct start-up and operating procedure:

- 1. Start the dust collector.
- 2. Make the thickness adjustment by placing the workpiece on the conveyor table and turn ing the conveyor handle until the workpiece can be sanded and fed through smoothly. *Turning the handle clockwise will raise the conveyor table. Turning the conveyor handle counter-clockwise will lower the conveyor table.*
- **3.** Remove the workpiece from the conveyor belt.
- 4. Start the sander and feed your stock. Retrieve by standing at the side—not at the outfeed end.



# **Platen Depth**

The platen position allows for 3 types of operation. These different positions can be adjusted by rotating the knob shown in **Figure 17**. Notice that the knob has a scale on it. By keeping track of how many revolutions you have rotated the knob, you can determine how far you have moved the platen.



Figure 17. The scale on this knob tells you how far you have moved the platen.

### The three basic platen positions:

**Platen Up** — The platen is raised above the level of the sanding rollers. This position allows the front roller to remove large amounts of material quickly, but leaves a rough finish. The best belt grit for this position is #100 or coarser.

**Platen Even** — The platen is set even with the sanding rollers. The rollers work together with the platen to produce intermediate/final finishing. The best belt grit for this position is #100-#180.

**Platen Down** — The platen is lowered below the sanding rollers. The majority of the work is accomplished by the platen pressure on the workpiece. The result is a smooth, flat finish. The best belt grit for this position is #180 or finer. *Avoid Lowering the platen more than .2MM below the sanding belt rollers*—this is the equivalent to 1 full turn of the knob.

# **Cleaning Pads**

Cleaning Pads (one is shown in **Figure 18**) are the perfect way to enhance your wide-belt sanding operations. Simply set the conveyor table to height and feed the pad through to "unload" a used sanding belt. This cleaning will greatly increase the lifespan of your sanding belts. Since each pad can be used dozens of times, you will actually save money in the long run. Check with the current Grizzly catalog for more details.



Figure 18. Sanding belt cleaning pad.



# **SECTION 7: MAINTENANCE**



### 

Disconnect power to the machine when performing any maintenance or assembly. Failure to do this may result in serious personal injury.

# General

Make a habit of inspecting your Model G9983 each time you use it. Failure to routinely inspect your wide-belt sander for damage and wear could result in unsatisfactory work results, premature component or machinery failure, or operator injury. We recommend you create a checklist for routine inspection and maintenance. Check for the following conditions and repair or replace when necessary.

- Loose mounting bolts.
- Worn or damaged sanding belt.
- Worn or damaged cords, plugs or switch.
- Damaged V-belt.
- Any other condition that could hamper the safe operation of this machine.



# Lubrication

Roller bearing blocks must be lubricated every 20 hours of operation with high-quality, lithium based grease via grease fittings on top of each block.

Other moving parts, such as chains, should be lubricated periodically with a light machine oil. Do not use too much lubrication because excess can attract dirt and sawdust and will clog the chain mechanism.

# **Cleaning Sanding Belts**

You can greatly increase the lifespan of your sanding belts if you clean them often. As mentioned on **page 22**, cleaning pads are the best way to do this.

Whenever sanding belts decrease in performance because of heavy loading, feed the cleaning pad through the sander. Repeat this process until the sanding belts are clean again—this will ensure optimum performance.

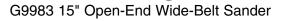


# **Emptying Filters**

There are two filters on the Model G9983. The first filter is located under the main regulator that houses the pressure gauge. The second filter, shown in **Figure 19**, is located near the oscillation controls. Since the eye fork configuration is prone to collecting sawdust, check and empty this filter often.



Figure 19. Unscrew this filter to empty it.



# **Maintenance Log**

Date	Approximate Hours Of Use	Maintenance Performed

# **SECTION 8: SERVICE ADJUSTMENTS**



# 

Keep loose clothing out of the way of machinery and keep hair pulled back.



### 

Disconnect power to the machine when performing any maintenance or assembly. Failure to do this may result in serious personal injury.



### 

Wear safety glasses during the entire assembly process. Failure to comply may result in serious personal injury.

# **Oscillation Timing**

The first step in adjusting the oscillation is timing the side to side movement the belt makes when oscillating. The belt should take the same amount of time to travel to one side as it did the other.

# 

Keep your hands clear of the sanding belt when making the adjustments in this step. The sandpaper is designed to remove a lot of material quickly whether it is wood or skin!

### To time the oscillation movement:

- 1. Open both access doors to the upper part of the machine so you can view the belt movement. The sanding belt should also be on the rollers and tightened. Turn the sanding belt *ON*.
- Count the amount of time it takes the belt to move from one side to the other. If the oscillation balance is correct, the belt will move from one side to the other in even intervals. If the balance is not correct, the belt may move to one side very quickly, then very slowly to the other.
- 3. If the belt immediately moves too far and shuts off the machine, then loosen the oscillation timing control knob shown in **Figure 20** and move it toward the front or rear of the machine to rotate the eccentric.
- 4. Loosen the belt tension, rebalance the sanding belt and retighten the belt tension. Repeat **steps 2 and 3**.



Figure 20. This is the oscillation timing control knob.

- 5. When you get the belt to oscillate without stopping, experiment with the timing knob to see the effect its movement has on the belt oscillation.
- 6. Position the timing knob so the belt moves from one side to the other, back and forth, in even intervals.
- 7. Lock the knob in place by turning it clockwise.



# **Oscillation Speed**

Use the valve shown in **Figure 21** to control the speed of the sanding belt oscillation. Make sure the oscillation is balanced before adjusting the speed.



Figure 21. Use the knob on this valve to control oscillation speed.



### Keep loose clothing out of the way of moving machinery and keep long hair pulled back.

**To increase the oscillation speed**, open the valve (turn the knob counter-clockwise). For normal operation, adjust the oscillation speed so each direction of belt movement takes approximately 2 seconds. When the speed is correct, tighten the jamnut so the knob will not move.

**To decrease the oscillation speed**, close the valve (turn the knob clockwise). When the speed is correct, tighten the jamnut.

Different speeds may yield different finishing results. Experiment with trial-and-error to determine the best speed for your particular situation.



# **Oscillation Return**

The oscillation return keeps the sanding belt in motion. The valve shown in **Figure 22** controls the oscillation return.

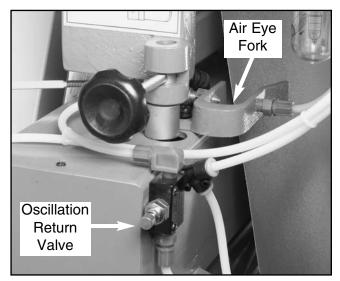


Figure 22. This is the oscillation return valve and the air eye fork.

#### To adjust the oscillation return:

- 1. Turn off all power to the sander, but keep air pressure going into the machine. Lower the belt and slide it out of the way of the eye fork.
- 2. Block the airflow between the eye fork until the top roller rotates to one side and does not return.
- **3.** With the airflow still blocked, loosen the jamnut on the valve knob and tighten the knob to close the valve.
- **4.** Now clear the eye fork so the air will flow between it again. Watch the top roller and slowly open the valve.
- 5. When the top roller begins to move, open the valve another 1/4 to 1/2 turn of the knob. Tighten the jamnut. DO NOT open the valve more than needed or there will be excessive pressure on the air system.

# **Limit Switches**

The limit switches are mounted on both sides of the sanding belt. They are designed to stop the sander if the belt travels too far to one side of the top roller.

The limit switches are factory set and should require no adjustments. However, if they stop working correctly, they move during adjustments, or they get replaced, proper adjustments will be required.

#### To adjust the limit switches:

 Center the sanding belt on the top roller. Measure the distance between the edge of the sanding belt and the limit switch lever. This distance should be approximately ½". If this measurement is different, then loosen the adjustment bolts shown in Figure 23 on the incorrect side.

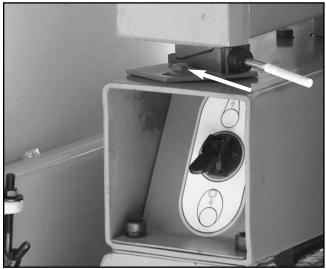


Figure 23. Loosen these bolts to adjust the limit switch position.

- 2. Slide the mounting bracket in the necessary direction until there is a 1/2" gap between the edge of the belt and the limit switch lever.
- **3.** Tighten the adjustment bolts to secure the mounting bracket. Test the sander to verify that operation returns to normal.

G9983 15" Open-End Wide-Belt Sander

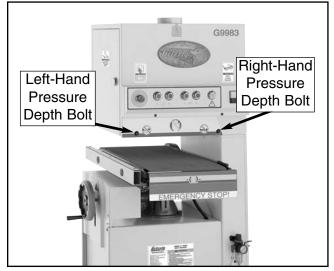
## Pressure Roller Depth

Variables such as feed rate, depth of the cut, and type of sanding belt can play a big part in determining the proper amount of downward pressure exerted by the rollers. Some experimentation may be necessary with pressure roller spring tension to achieve the desired results. However, under no circumstances should the pressure roller depth be set even, or higher than, the sanding rollers or platen.

### To adjust the pressure roller depth:

### 1. Unplug the sander!

- 2. Joint and plane a 6" W x 36"L piece of wood, then rip it down the middle. This will give you two boards that are nearly the exact same thickness.
- 3. Place one board along the length of the conveyor belt on the right-hand side so it is directly beneath both front and back pressure roller depth bolts. Place the other board on the left-hand side so it is directly beneath both front and back pressure roller depth bolts. Figure 24 shows the front left-hand and front right-hand pressure roller adjustment bolts.



**Figure 24.** These are the pressure roller depth bolts at the front of the machine. *The rear depth bolts are in the same location at the rear.* 

- **4.** With the air pressure connected, and the sanding belt installed and tensioned, raise the pressure rollers above the sanding belt rollers.
- **5.** Raise the conveyor until the the boards touch the sanding belt rollers. The rollers should evenly touch the boards at the same time.
- 6. Turn the conveyor handwheel counterclockwise <sup>1</sup>/<sub>8</sub>th of a turn. This should lower the conveyor approximately .020" or .5mm.
- 7. Lower each end of the pressure rollers so they barely touch the boards. Lock in place.



## Pressure Roller Tension

Pressure roller tension is largely set by trial and error. If there is not enough tension, the workpiece will not pass through the sander evenly and may possibly be launched toward the operator. If there is too much tension, the feed belt will experience premature wear and the workpiece will pass through the sander sluggishly (if at all).

#### To adjust the pressure roller tension:

- 1. Unplug the sander!
- 2. Make sure the pressure roller depth is set correctly.
- Open both access doors and locate the pressure roller tension springs shown in Figure 25.



**Figure 25.** This is one of the four pressure roller adjustment bolts.

4. Turning the nut on the adjustment bolt clockwise will increase the tension and counterclockwise will decrease the tension.

A quick way to gauge that the spring tension is consistent is to measure the distance from the top of the nut to the the top of the adjustment bolt. If the board pulls to one side during sanding, loosen that side in small increments as needed.



# **Feed Belt Tension**

### To adjust the feed belt tension:

- 1. Disconnect the sander from the power source!
- 2. Move the emergency brake plate up and out of the way.
- **3.** Tension adjustments are made using the bolts located on the left and right side of the front conveyor roller as shown in **Figure 26**.
- 4. When tensioned properly you should not be able to lift the belt off the conveyor surface or slide it back and forth, and it should not slip.
- **5.** Perform the "Feed Belt Tracking" instructions to ensure that the tracking did not change during tensioning.



### To check the feed belt tracking:

- 1. Turn the feed belt ON.
- 2. If the belt moves to one side then you need to immediately stop the machine and adjust the belt tracking. If the belt tracks evenly, leave it alone.

### To adjust the feed belt tracking:

- 1. Unplug the sander!
- 2. Use the adjustment bolts (one is shown in **Figure 26**) to correct the tracking.
- **3.** Run the feed belt for a few minutes after the adjustment to allow the belt to move into its new position. When you are satisfied that the belt has finished moving, stop the feed belt.
- 4. If more adjustments are necessary, experiment with how the movement of the adjustment bolts affects the belt tracking; do this until you can make the feed belt track evenly. Make sure you did not loosen the belt during the tracking process. If you did, adjust each side of one belt roller away from the machine, as evenly as possible.

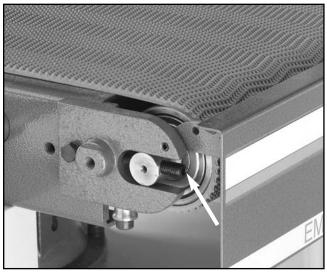
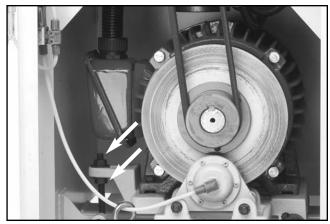


Figure 26. This is a feed belt adjustment bolt.

# **V-Belt Tension**

The sanding belt is driven by two V-belts on the Model G9983. The V-belts must have adequate tension for proper power transmission. Proper tension is usually achieved when the V-belts can be deflected no more than 1" with moderate finger pressure at the midpoint between the widebelt pulleys and the motor pulleys. The large cover on the right-hand side of the sander must be removed to access the V-belts and the sand-ing motor.

Thread the nuts shown in **Figure 27** down to tighten the V-belts, or thread the nuts up to loosen the V-belts.



**Figure 27.** Turning these nuts allows you to raise/lower the motor to adjust the V-belts.

# 

Always inspect V-belts for damage or deterioration when adjusting for tension. Should you find evidence of cracking, abrasion or damage from wood chips or other foreign materials, replace the belt immediately. Belt breakage may lead to mechanical damage or operator injury.



# **Replacing V-Belts**

Inspect the V-belts closely; if you see any glazing, cracking or fraying, replace the belts. Always replace the two V-belts at the same time for proper power transmission.

### To replace the V-belts:

- 1. Disconnect sander from the power source and shut off air pressure.
- 2. Loosen the top nut on the motor adjustment bolt shown in **Figure 28**. Turn the bottom nut counterclockwise to raise the motor (or pry motor up with a scrap piece of wood) and loosen the V-belts.

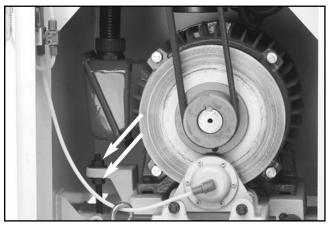


Figure 28. Loosen the V-belt by using the adjustment nuts.

- **3.** When V-belts are sufficiently loose, slide them off of the motor pulley.
- 4. To remove the V-belts from the roller pulley, the roller needs to be removed. Open the left-hand access door and remove the platen micro-adjust knob by loosening the setscrew that secures the face. The plate underneath the knob is secured to the casting by two setscrews—remove these. **Figure 29** shows the knob and indicator plate removed from the casting.
- 5. Remove the large cap screws, also shown in **Figure 29**, to loosen the casting on the roller shafts.

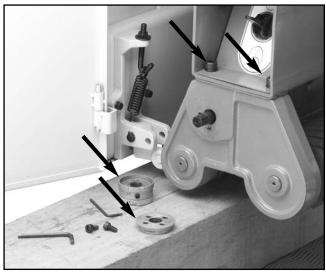


Figure 29. Remove platen adjustment knob, indicator plate, and large cap screws.

6. Work the casting off the roller shafts as shown in Figure 30.



Figure 30. Work the casting off the roller shafts.

7. Open the right-hand access door and locate the large nut shown in **Figure 31** and remove it with the box wrench included with the machine.

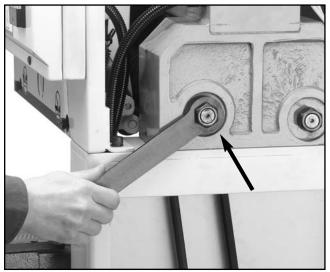


Figure 31. Remove this roller shaft nut located behind right-hand access door.

 Slide out the front roller shaft, as shown in Figure 32, to get the V-belts off of the pulley.

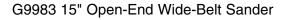


Figure 32. Remove roller.

**9.** Installation is the reverse of removal. If possible, have an assistant help you when installing the V-belts and the roller. Also, an assistant can be helpful on the other end of the roller when tightening the nuts on the roller shafts.



New V-belts will often stretch after moderate use. Check frequently after installation.



# **Platen Graphite**

The graphite sheet on the platen will wear out with use. Similar to the sanding belts, the graphite sheet is considered a "consumable" item and is not covered under the warranty. We recommend keeping replacements in your inventory to avoid downtime. To obtain replacements, use the part number in the back of this manual for ordering.

#### To replace the graphite sheet:

- **1.** Pull the platen from its bracket with the included platen puller tool.
- 2. Remove the screws and hold-down bar that secure the graphite sheet to the platen.
- **3.** Install the new graphite sheet exactly the reverse as removal. *Make sure that the graphite sheet is wrapped in the same direction as the old one.*



The air system is durable and reliable; however, components do wear with age. If you suspect that an item in your air system may be having problems, use the diagram on **page 38** to follow all lines and connections, and use the instructions below to investigate.

- Carefully inspect all air lines for cracks, tears or hardening. Replace faulty hoses.
- Check the air connections for leaks. A small amount of water in a questionable area will bubble if there is a leak.
- Make sure lines are not clogged. Remove a questionable line and blow through it as a test.

# 

If you ever determine that a component in the air system is malfunctioning, DO NOT operate the sander. Fix the problem before resuming operation.

# **Replacing Brakes**

The only regular maintenance to perform on the brakes is to keep the rotor clean. This is a simple process and can be performed by spraying both sides of the rotor with automotive brake parts cleaner. The brake rotor must be free and clean of any dust, dirt, oil or moisture.

Eventually the brake pads will wear out. Checking and replacing these is a simple project that can be done in the shop, with the exception of having the rotor resurfaced.

### To check the brake pads:

- 1. Disconnect the sander from the power source and remove the air pressure completely.
- 2. Remove the four screws that secure the motor cover on the right-hand side of the machine. This will allow you to access the brake components.
- **3.** The brake pads consist of a metal plate with a composite pad. With a fine ruler, measure the thickness of the composite pad only. If one of the pads is below 1/8" (approx. 3mm), replace both.

#### To replace the brake pads:

- 1. Disconnect the sander from the power source and remove the air pressure completely.
- 2. Remove the nuts from the two mounting bolts. There are two snap rings on the mounting pins behind the bracket. Remove these.
- **3.** Pull the mounting pins out of the caliper bracket and remove the air line from the caliper. The caliper should now be able to be removed as in **Figure 33**.

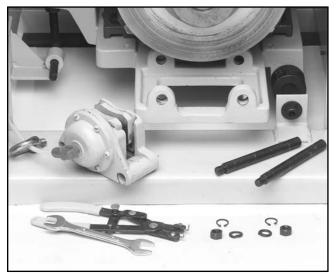


Figure 33. Removing caliper to replace brake pads.

- 4. The brake pads are secured to the caliper with cap screws. One of these screws is easily accessible; the other can only be reached by disassembling the brake caliper. Do this and remove the cap screws to remove the brake pads.
- 5. Remove the brake rotor and have it professionally resurfaced. For this, find a local machinist or auto supply store that regularly resurfaces brake rotors for automobiles. If visible cracks are present in the brake rotor, replace with a new one. Clean the rotor with automotive brake cleaner to remove any oil or dirt. Handle with a dry rag and install exactly the reverse of removal.
- 6. Install new brake pads, mount the caliper and reconnect the air line.



## **Service Log**

Date	Approximate Hours Of Use	Service Performed

# **SECTION 8: CLOSURE**

The following pages contain general machine data, parts diagrams/lists, a troubleshooting guide and Warranty/Return information for your Model G9983 Wide-belt Sanders.

If you need parts or help in assembling your machine, or if you need operational information, we encourage you to call our Service Department. Our trained service technicians will be glad to help you.

If you have comments dealing specifically with this manual, please write to our Bellingham, Washington location using the address in *Section 2: Introduction*. The specifications, drawings, and photographs illustrated in this manual represent the Model G9983 as supplied when the manual was prepared. However, due to Grizzly's policy of continuous improvement, changes may be made at any time with no obligation on the part of Grizzly. Whenever possible, though, we send manual updates to all owners of a particular tool or machine. Should you receive one, add the new information to this manual and keep it for reference.

We have included some important safety measures that are essential to this machine's operation. While most safety measures are generally universal, Grizzly reminds you that each workshop is different and safety rules should be considered as they apply to your specific situation.

## WARNING

This equipment has the potential to create flying debris which can cause severe eye injury. Always wear safety glasses or goggles when operating equipment. Everyday glasses or reading glasses only have impact resistant lenses, they are not safety glasses. Be certain the safety glasses you wear meet the appropriate standards of the American National Standards Institute (ANSI). We recommend you keep a copy of our current catalog for complete information regarding Grizzly's warranty and return policy. If you need additional technical information relating to this machine, or if you need general assistance or replacement parts, please contact the Service Department listed in *Section 3: Introduction*.

Additional information sources are necessary to realize the full potential of this machine. Trade journals, woodworking magazines, and your local library are good places to start.

### 

The Model G9983 was specifically designed for sanding wood. DO NOT MODIFY AND/OR USE THIS MACHINE FOR ANY OTHER PURPOSE. Modifications or improper use of this tool will void the warranty. If you are confused about any aspect of this machine, DO NOT use it until all your questions have been answered. Serious personal injury may occur.

## 

Like all power tools, there is danger associated with the Model G9983 Wide-belt Sander. Accidents are frequently caused by lack of familiarity or failure to pay attention. Use this tool with respect and caution to lessen the possibility of operator injury. If normal safety precautions are overlooked or ignored, serious personal injury may occur.



## MACHINE DATA SHEET

Customer Service #: (570) 546-9663 • To Order Call: (800) 523-4777 • Fax #: (800) 438-5901

### MODEL G9983 15" OPEN-END WIDE-BELT SANDER

Design Type	Floor Model - Open End
Overall Dimensions:	
Height	61 <sup>3</sup> ⁄/"
Width	
Depth	
Shipping Weight	
Net Weight	
Foot Print Crate Size	
Capacities:	4 5 1
Maximum Board Width (in one pass)	
Maximum Board Thickness	
Minimum Board Length	
Surface Speed of Sanding Belt	
Conveyor Feed Rate	
Sanding Belt Size	16" x 48"
Sanding Motor:	- 110
Horsepower	
Voltage	
Amps	
RPM	
Phase / Cycle	5
Power Transfer	2 V-Belt Drive
Conveyor Motor:	
Horsepower	
Voltage	
Amps	
RPM	
Phase / Cycle	8
Power Transfer	Gear Box to Chain
General Construction:	
Cabinet	Steel
Belt Drums	Rubber Infeed Drum
	Rubber Pressure Rollers
Features:	
	0
	Load Meter
	Safety Shut-Off Bar
Disc Brake	
	5" Dust Port

Specifications, while deemed accurate, are not guaranteed.

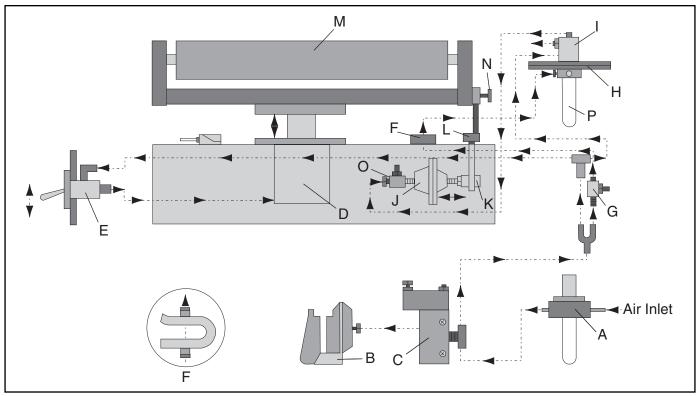
## Air System

Various functions on the Model G9983 are controlled through the air system. Since this is a complex network of hoses and valves, please take some time to familiarize yourself with each item so you can better understand your machine during adjustments.

The illustration below follows the air travel through the machine to familiarize you with how it works. Match the letters in the text with those in the illustration to learn more about each function.

- 1. The air flows into the machine at the pressure regulator (A). This should be adjusted to 75 PSI.
- 2. The solenoid valve (C) controls the brake caliper (B) when signaled by the emergency stop switch or the limit switches.
- The switching valve (E) controls the vertical cylinder (D) which raises/lowers the top roller (M) to tighten/loosen the sanding belt.

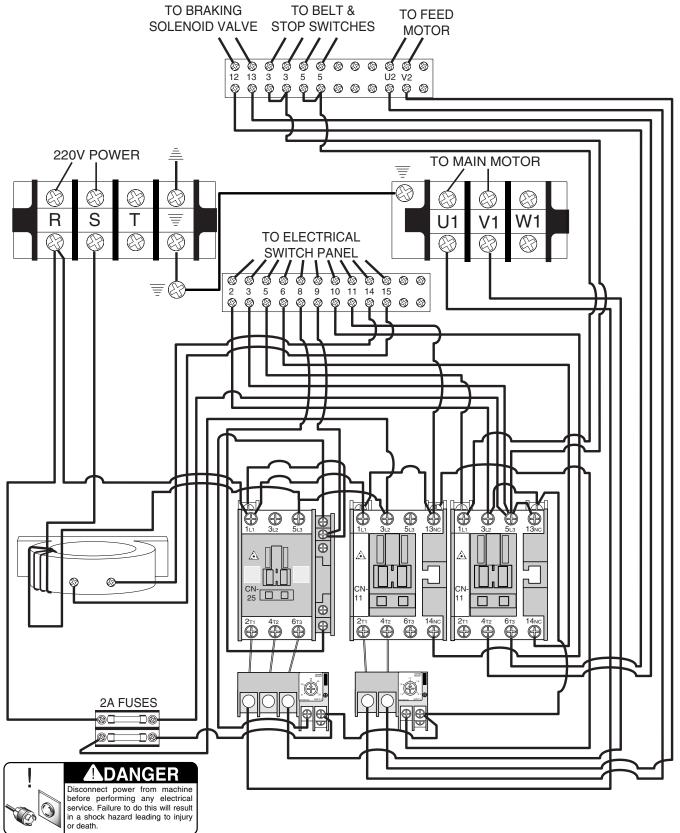
- **4.** The valve (G) controls the air flow volume that goes to the air eye fork (F), which controls the belt oscillation return.
- 5. The diaphragm (H) actuates the switching valve (I) depending on whether air is coming from the eye fork (F) or the pressure regulator (A).
- 6. Switching valve (I) actuates the diaphragm (J), which controls oscillation arm (K), which in turn, moves eccentric shaft (L), which makes top roller (M) shift back and forth to control belt movement during operation.
- **7.** Valve (O) controls the speed at which the belt moves back and forth.
- 8. Knob (N) allows you to rotate the eccentric shaft (L) to balance the oscillation timing so it takes the belt the same amount of time to move in one direction as it moves in the other direction.



This is an illustration of the air control system.



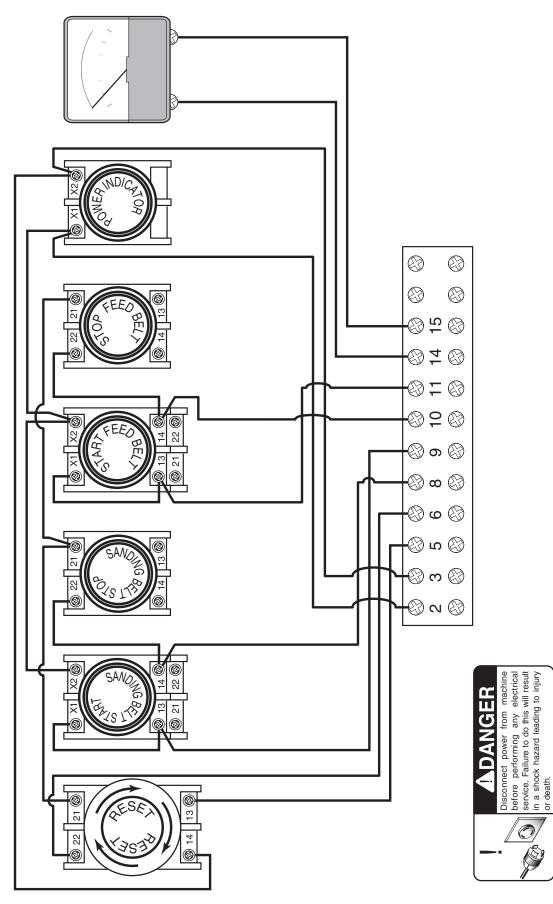
#### Model G9983 Wiring Diagram—Main Hook Up Panel 220 Volt Single-Phase



G9983 15" Open-End Wide-Belt Sander

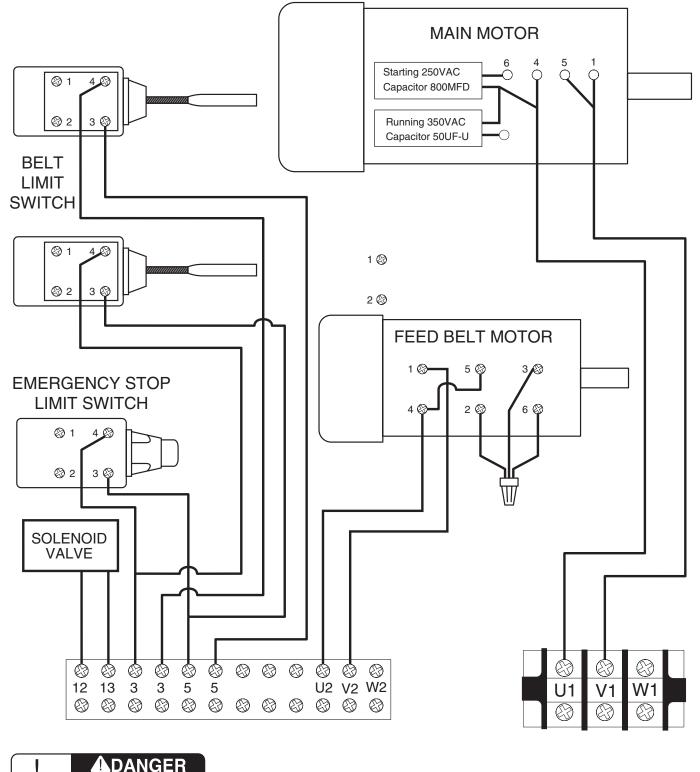


Model G9983 Wiring Diagram -Control Panel 220 Volt Single Phase



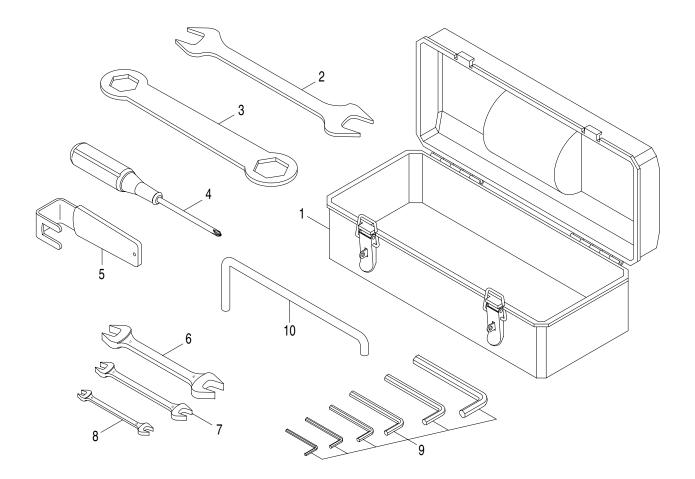


#### Model G9983 Wiring Diagram - 220 Volt Single Phase



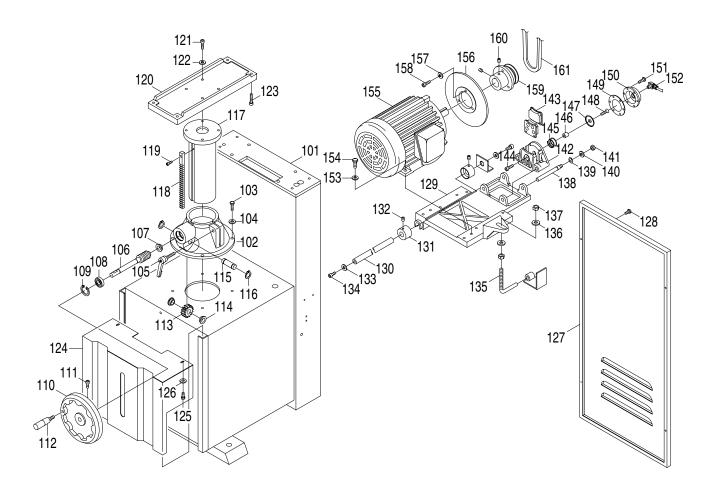
before performing any electrical service. Failure to do this will result in a shock hazard leading to injury or death.

Disconnect power from machine



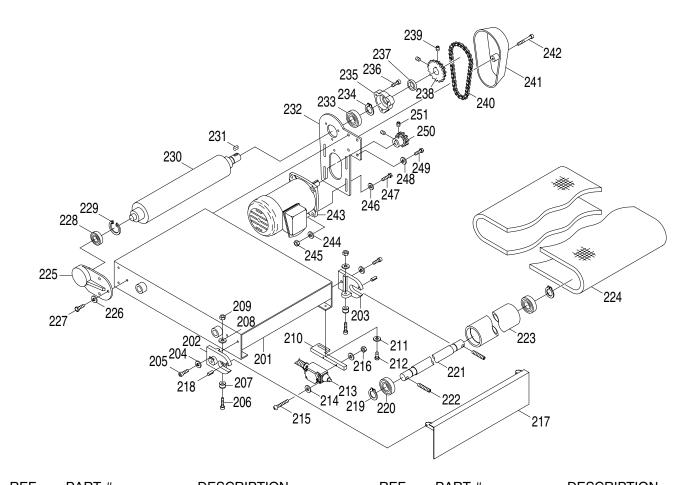
REF	PART #	DESCRIPTION
1	P9983001	TOOL BOX
2	PWR1214	COMBO WRENCH 12/14MM
3	P9983003	BOX WRENCH 30/37MM
4	P4000937	PHILLIPS SCREWDRIVER
5	P9983005	ACCESS DOOR HANDLE

REF	PART #	DESCRIPTION
6	PWR1719	COMBO WRENCH 17/19MM
7	PWR1113	COMBO WRENCH 11/13MM
8	PWR810	COMBO WRENCH 8/10MM
9	P9983009	ALLEN WRENCH SET (10)
10	P9983010	PLATEN TOOL



REF	PART #	DESCRIPTION
101	P9983101	MACHINE BASE
102	P9983102	QUILL BASE
103	PSB64M	CAP SCREW M10-1.5 X 25
104	P9983104	LOCK WASHER 10MM
105	P9983105	LOCKING HANDLE
106	P9983106	WORM GEAR SHAFT
107	P51102	BEARING 51102
108	P6203	BEARING 6203ZZ
109	PR23M	INT RETAINING RING 40MM
110	P9983110	HANDWHEEL
111	PSB64M	CAP SCREW M10-1.5 X 25MM
112	P9983112	HANDLE M10
113	P9983113	WORM GEAR
114	P9983114	BUSHING
115	P9983115	GEAR SHAFT
116	PR18M	EXT RETAINING RING 17MM
117	P9983117	QUILL
118	P9983118	RACK
119	PSB26M	CAP SCREW M6-1.0 X 12
120	P9983120	CONVEYOR SUPPORT
121	PSB12M	CAP SCREW M8-1.25 X 40
122	PLW04M	LOCK WASHER 8MM
123	PSB12M	CAP SCREW M8-1.25 X 40
124	P9983124	QUILL COVER
125	PS14M	PHLP HD SCR M6-1.0 X 12
126	P9983126	FLAT WASHER 6MM
127	P9983127	MACHINE BASE COVER
128	PS47M	PHLP HD SCR M6-1.0 X 25
129	P9983129	MOTOR BASE
130	P9983130	SETTING SHAFT
131	P9983131	LOCK BUSHING

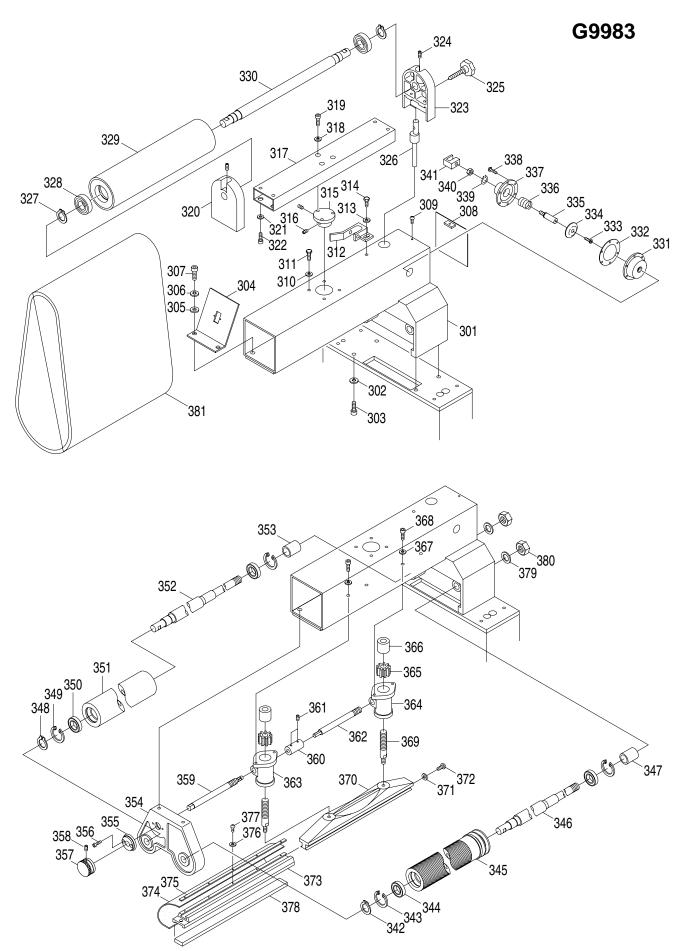
REF	PART #	DESCRIPTION
132	PSS09M	SETSCREW M8-1.25 X 20
133	PW04M	FLAT WASHER 10MM
134	PSB62M	CAP SCREW M10-1.5 X 12
135	P9983135	ADJUSTABLE SCREW
136	PW06M	FLAT WASHER 12MM
137	PN09M	HEX NUT M12-1.75
138	P9983138	BRAKE PIN
139	PR47M	EXT RETAINING RING 13MM
140	PLW06M	LOCK WASHER 10MM
141	PN02M	HEX NUT M10-1.5
142	P9983142	BRAKE CALIPER
143	P9983143	BRAKE PAD
144	PS14M	CAP SCREW M6-1.0 X 12
145	P9983145	SPRING
146	P9983146	BRAKE AXLE
147	P9983147	PLATE
148	PS47M	PHLP HD SCR M6-1.0 X 25
149	P9983149	DIAPHRAGM
150	P9983150	TOP COVER
151	PS20M	PHLP HD SCR M508 X 15
152	P9983152	PLASTIC CONNECTOR
153	PLW06M	LOCK WASHER 10MM
154	PB01M	HEX BOLT M10-1.5 X 30
155	P9983155	SPINDLE MOTOR 5HP
156	P9983156	BRAKE ROTOR
157	PLW06M	LOCK WASHER 10MM
158	PSB75M	CAP SCREW M10-1.5 X 18
159	P9983159	MOTOR PULLEY
160	PSS13M	SETSCREW M10-1.5 X 12
161	PVA71	BELT A71



REF	PART #	DESCRIPTION
201	P9983201	CONVEYOR SUPPORT
202	P9983202	ROLLER BRACKET LH
203	P9983203	ROLLER BRACKET RH
204	PLW04M	LOCK WASHER 8MM
205	PB07M	HEX BOLT M8-1.25 X 25
206	PSB40M	CAP SCREW M8-1.25 X 35
207	P9983207	BRASS ROLLER
208	PLW04M	LOCK WASHER 8MM
209	PN03M	HEX NUT M8-1.25
210	P9983210	LIMIT SWITCH BASE
211	PW03M	FLAT WASHER 6MM
212	PS14M	PHLP HD SCR M6-1.0 X 12
213	P9983213	LIMIT SWITCH
214	PW05M	FLAT WASHER 4MM
215	PS48M	PHLP HD SCR M47 X 50
216	PN04M	HEX NUT M47
217	P9983217	E-BRAKE PANEL
218	PRP03M	PIN 5 X 20MM
219	PR11M	EXT RETAINING RING 25MM
220	P6305	BEARING 6305ZZ
221	P9983221	CONVEYOR AXLE
222	PSS39M	SETSCREW M10-1.5 X 50
223	P9983223	CONVEYOR ROLLER
224	P9983224	CONVEYOR BELT 380 X 1600
225	P9983225	BEARING SEAT
226	PLW04M	LOCK WASHER 8MM
6998	3 15" Open	-End Wide-Belt Sander

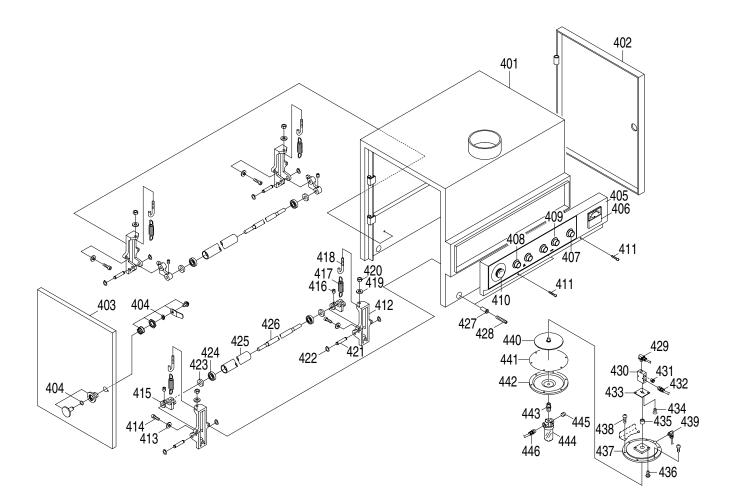
REF	PART #	DESCRIPTION
227	PB09M	HEX BOLT M8-1.25 X 20
228	P6204	BEARING 6204ZZ
229	PR25M	INT RETAINING RING 47MM
230	P9983230	MAIN ROLLER
231	PK67M	KEY 8 X 7 X 15MM
232	P9983232	MOTOR PANEL
233	P6205	BEARING 6205ZZ
234	PR11M	EXT RETAINING RING 25MM
235	P9983235	BEARING COVER
236	PSB74M	CAP SCREW M6-1.0 X 18
237	P9983237	BUSHING
238	P9983238	CHAIN WHEEL 19T X 24T
239	PSS02M	SETSCREW M6-1.0 X 6
240	P9983240	CHAIN 3/8" X 48PC
241	P9983241	ROLLER CHAIN COVER
242	PSB37M	CAP SCREW M6-1.0 X 50
243	P9983243	FEED MOTOR 1/4 HP
244	PLW04M	LOCK WASHER 8MM
245	PN03M	HEX NUT M8-1.25
246	PW01M	FLAT WASHER 8MM
247	PB26M	HEX BOLT M8-1.25 X 30
248	PLW04M	LOCK WASHER 8MM
249	PB09M	HEX BOLT M8-1.25 X 20
250	P9983250	CHAIN WHEEL 12T, 14T
251	PSS02M	SETSCREW M6-1.0 X 6

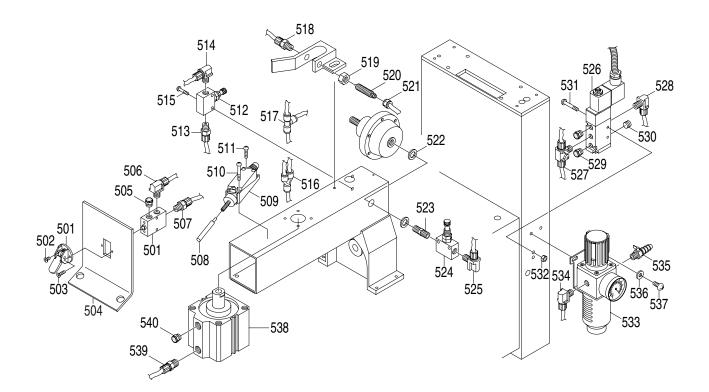
G9983 15" Open-End Wide-Belt Sander



328         P6205         BEARING 6205ZZ           329         P9983329         TOP ROLLER           330         P9983330         TOP ROLLER SHAFT	REF	PART #	DESCRIPTION
303         PSB72M         CAP SCREW M10-1.5 X 30           304         P9983304         SWITCH PLATE           306         PLW06M         LOCK WASHER 10MM           307         PSB72M         CAP SCREW M10-1.5 X 30           308         P9983308         COVER           309         PS02M         PHLP HD SCR M407 X 12           310         PLW04M         LOCK WASHER 8MM           311         PB07M         HEX BOLT M8-1.25 X 25           312         P9983312         FORK           313         PW03M         FLAT WASHER 6MM           314         PS14M         PHLP HD SCR M6-1.0 X 12           315         P9983315         CYLINDER ROLLER FRAME           316         PSS04M         SETSCREW M6-1.0 X 12           317         P9983317         SUPPORT TUBE           318         PLW04M         LOCK WASHER 8MM           319         PSB76M         CAP SCREW M8-1.25 X 18           320         P9983320         TOP ROLLER SUPPORT           321         PLW04M         LOCK WASHER 8MM           322         PSS41M         SETSCREW M8-1.25 X 18           323         P998323         TOP ECCENTRIC FRAME           324         PSB26M	301	P9983301	CONTACT ROLLER BASE
304         P9983304         SWITCH PLATE           306         PLW06M         LOCK WASHER 10MM           307         PSB72M         CAP SCREW M10-1.5 X 30           308         P9983308         COVER           309         PS02M         PHLP HD SCR M407 X 12           310         PLW04M         LOCK WASHER 8MM           311         PB07M         HEX BOLT M8-1.25 X 25           312         P9983312         FORK           313         PW03M         FLAT WASHER 6MM           314         PS14M         PHLP HD SCR M6-1.0 X 12           315         P9983315         CYLINDER ROLLER FRAME           316         PSS04M         SETSCREW M6-1.0 X 12           317         P9983317         SUPPORT TUBE           318         PLW04M         LOCK WASHER 8MM           319         PSB76M         CAP SCREW M8-1.25 X 18           320         P9983320         TOP ROLLER SUPPORT           321         PLW04M         LOCK WASHER 8MM           322         PSS41M         SETSCREW M8-1.25 X 18           323         P9983323         TOP ECCENTRIC FRAME           324         PSB26M         CAP M6-1.0 X 12MM           325         P9983325	302	PLW06M	LOCK WASHER 10MM
306         PLW06M         LOCK WASHER 10MM           307         PSB72M         CAP SCREW M10-1.5 X 30           308         P9983308         COVER           309         PS02M         PHLP HD SCR M407 X 12           310         PLW04M         LOCK WASHER 8MM           311         PB07M         HEX BOLT M8-1.25 X 25           312         P9983312         FORK           313         PW03M         FLAT WASHER 6MM           314         PS14M         PHLP HD SCR M6-1.0 X 12           315         P9983315         CYLINDER ROLLER FRAME           316         PSS04M         SETSCREW M6-1.0 X 12           317         P9983317         SUPPORT TUBE           318         PLW04M         LOCK WASHER 8MM           319         PSB76M         CAP SCREW M8-1.25 X 18           320         P998320         TOP ROLLER SUPPORT           321         PLW04M         LOCK WASHER 8MM           322         PSS41M         SETSCREW M8-1.25 X 18           323         P9983323         TOP ROLLER SUPPORT           324         PSB26M         CAP M6-1.0 X 12MM           325         P9983325         KNOB BOLT M8 X 55           326         P9983326	303	PSB72M	CAP SCREW M10-1.5 X 30
307         PSB72M         CAP SCREW M10-1.5 X 30           308         P9983308         COVER           309         PS02M         PHLP HD SCR M407 X 12           310         PLW04M         LOCK WASHER 8MM           311         PB07M         HEX BOLT M8-1.25 X 25           312         P9983312         FORK           313         PW03M         FLAT WASHER 6MM           314         PS14M         PHLP HD SCR M6-1.0 X 12           315         P9983315         CYLINDER ROLLER FRAME           316         PSS04M         SETSCREW M6-1.0 X 12           317         P9983317         SUPPORT TUBE           318         PLW04M         LOCK WASHER 8MM           319         PSB76M         CAP SCREW M8-1.25 X 18           320         P9983320         TOP ROLLER SUPPORT           321         PLW04M         LOCK WASHER 8MM           322         PSS41M         SETSCREW M8-1.25 X 18           323         P9983323         TOP ECCENTRIC FRAME           324         PSB26M         CAP M6-1.0 X 12MM           325         P9983325         KNOB BOLT M8 X 55           326         P9983326         ECCENTRIC SHAFT           327         PR11M	304	P9983304	SWITCH PLATE
308         P9983308         COVER           309         PS02M         PHLP HD SCR M407 X 12           310         PLW04M         LOCK WASHER 8MM           311         PB07M         HEX BOLT M8-1.25 X 25           312         P9983312         FORK           313         PW03M         FLAT WASHER 6MM           314         PS14M         PHLP HD SCR M6-1.0 X 12           315         P9983315         CYLINDER ROLLER FRAME           316         PSS04M         SETSCREW M6-1.0 X 12           317         P9983317         SUPPORT TUBE           318         PLW04M         LOCK WASHER 8MM           319         PSB76M         CAP SCREW M8-1.25 X 18           320         P9983320         TOP ROLLER SUPPORT           321         PLW04M         LOCK WASHER 8MM           322         PSS41M         SETSCREW M8-1.25 X 18           323         P9983323         TOP ROLLER SUPPORT           324         PSB26M         CAP M6-1.0 X 12MM           325         P9983325         KNOB BOLT M8 X 55           326         P9983326         ECCENTRIC SHAFT           327         PR11M         EXT RETAINING RING 25MM           328         P6205	306	PLW06M	LOCK WASHER 10MM
309         PS02M         PHLP HD SCR M407 X 12           310         PLW04M         LOCK WASHER 8MM           311         PB07M         HEX BOLT M8-1.25 X 25           312         P9983312         FORK           313         PW03M         FLAT WASHER 6MM           314         PS14M         PHLP HD SCR M6-1.0 X 12           315         P9983315         CYLINDER ROLLER FRAME           316         PSS04M         SETSCREW M6-1.0 X 12           317         P9983317         SUPPORT TUBE           318         PLW04M         LOCK WASHER 8MM           319         PSB76M         CAP SCREW M8-1.25 X 18           320         P9983320         TOP ROLLER SUPPORT           321         PLW04M         LOCK WASHER 8MM           322         PSS41M         SETSCREW M8-1.25 X 18           323         P9983323         TOP ROLLER SUPPORT           324         PSB26M         CAP M6-1.0 X 12MM           325         P9983325         KNOB BOLT M8 X 55           326         P9983326         ECCENTRIC SHAFT           327         PR11M         EXT RETAINING RING 25MM           328         P6205         BEARING 6205ZZ           329         P9983	-		CAP SCREW M10-1.5 X 30
310         PLW04M         LOCK WASHER 8MM           311         PB07M         HEX BOLT M8-1.25 X 25           312         P9983312         FORK           313         PW03M         FLAT WASHER 6MM           314         PS14M         PHLP HD SCR M6-1.0 X 12           315         P9983315         CYLINDER ROLLER FRAME           316         PSS04M         SETSCREW M6-1.0 X 12           317         P9983317         SUPPORT TUBE           318         PLW04M         LOCK WASHER 8MM           319         PSB76M         CAP SCREW M8-1.25 X 18           320         P9983320         TOP ROLLER SUPPORT           321         PLW04M         LOCK WASHER 8MM           322         PSS41M         SETSCREW M8-1.25 X 18           323         P9983323         TOP ROLLER SUPPORT           324         PSB26M         CAP M6-1.0 X 12MM           325         P9983325         KNOB BOLT M8 X 55           326         P9983326         ECCENTRIC SHAFT           327         PR11M         EXT RETAINING RING 25MM           328         P6205         BEARING 6205ZZ           329         P9983329         TOP ROLLER           330         P9983330	308	P9983308	COVER
311         PB07M         HEX BOLT M8-1.25 X 25           312         P9983312         FORK           313         PW03M         FLAT WASHER 6MM           314         PS14M         PHLP HD SCR M6-1.0 X 12           315         P9983315         CYLINDER ROLLER FRAME           316         PSS04M         SETSCREW M6-1.0 X 12           317         P9983317         SUPPORT TUBE           318         PLW04M         LOCK WASHER 8MM           319         PSB76M         CAP SCREW M8-1.25 X 18           320         P9983320         TOP ROLLER SUPPORT           321         PLW04M         LOCK WASHER 8MM           322         PSS41M         SETSCREW M8-1.25 X 18           323         P9983323         TOP ECCENTRIC FRAME           324         PSB26M         CAP M6-1.0 X 12MM           325         P9983325         KNOB BOLT M8 X 55           326         P9983326         ECCENTRIC SHAFT           327         PR11M         EXT RETAINING RING 25MM           328         P6205         BEARING 6205ZZ           329         P9983329         TOP ROLLER           330         P9983330         TOP ROLLER SHAFT	309	PS02M	
312       P9983312       FORK         313       PW03M       FLAT WASHER 6MM         314       PS14M       PHLP HD SCR M6-1.0 X 12         315       P9983315       CYLINDER ROLLER FRAME         316       PSS04M       SETSCREW M6-1.0 X 12         317       P9983317       SUPPORT TUBE         318       PLW04M       LOCK WASHER 8MM         319       PSB76M       CAP SCREW M8-1.25 X 18         320       P9983320       TOP ROLLER SUPPORT         321       PLW04M       LOCK WASHER 8MM         322       PSS41M       SETSCREW M8-1.25 X 18         323       P9983323       TOP ROLLER SUPPORT         324       PSB26M       CAP M6-1.0 X 12MM         325       P9983325       KNOB BOLT M8 X 55         326       P9983326       ECCENTRIC SHAFT         327       PR11M       EXT RETAINING RING 25MM         328       P6205       BEARING 6205ZZ         329       P9983320       TOP ROLLER         330       P9983330       TOP ROLLER SHAFT	310	PLW04M	LOCK WASHER 8MM
313         PW03M         FLAT WASHER 6MM           314         PS14M         PHLP HD SCR M6-1.0 X 12           315         P9983315         CYLINDER ROLLER FRAME           316         PSS04M         SETSCREW M6-1.0 X 12           317         P9983317         SUPPORT TUBE           318         PLW04M         LOCK WASHER 8MM           319         PSB76M         CAP SCREW M8-1.25 X 18           320         P9983320         TOP ROLLER SUPPORT           321         PLW04M         LOCK WASHER 8MM           322         PSS41M         SETSCREW M8-1.25 X 18           323         P9983323         TOP ROLLER SUPPORT           324         PSB26M         CAP M6-1.0 X 12MM           325         P9983325         KNOB BOLT M8 X 55           326         P9983326         ECCENTRIC SHAFT           327         PR11M         EXT RETAINING RING 25MM           328         P6205         BEARING 6205ZZ           329         P9983329         TOP ROLLER           330         P9983330         TOP ROLLER SHAFT	311	PB07M	HEX BOLT M8-1.25 X 25
314         PS14M         PHLP HD SCR M6-1.0 X 12           315         P9983315         CYLINDER ROLLER FRAME           316         PSS04M         SETSCREW M6-1.0 X 12           317         P9983317         SUPPORT TUBE           318         PLW04M         LOCK WASHER 8MM           319         PSB76M         CAP SCREW M8-1.25 X 18           320         P9983320         TOP ROLLER SUPPORT           321         PLW04M         LOCK WASHER 8MM           322         PSS41M         SETSCREW M8-1.25 X 18           323         P9983323         TOP ROLLER SUPPORT           324         PSB26M         CAP M6-1.0 X 12MM           325         P9983325         KNOB BOLT M8 X 55           326         P9983326         ECCENTRIC SHAFT           327         PR11M         EXT RETAINING RING 25MM           328         P6205         BEARING 6205ZZ           329         P9983329         TOP ROLLER           330         P9983330         TOP ROLLER SHAFT	-		
315       P9983315       CYLINDER ROLLER FRAME         316       PSS04M       SETSCREW M6-1.0 X 12         317       P9983317       SUPPORT TUBE         318       PLW04M       LOCK WASHER 8MM         319       PSB76M       CAP SCREW M8-1.25 X 18         320       P9983320       TOP ROLLER SUPPORT         321       PLW04M       LOCK WASHER 8MM         322       PSS41M       SETSCREW M8-1.25 X 18         323       P9983323       TOP ECCENTRIC FRAME         324       PSB26M       CAP M6-1.0 X 12MM         325       P9983325       KNOB BOLT M8 X 55         326       P9983326       ECCENTRIC SHAFT         327       PR11M       EXT RETAINING RING 25MM         328       P6205       BEARING 6205ZZ         329       P9983320       TOP ROLLER         330       P9983330       TOP ROLLER SHAFT	-		
316       PSS04M       SETSCREW M6-1.0 X 12         317       P9983317       SUPPORT TUBE         318       PLW04M       LOCK WASHER 8MM         319       PSB76M       CAP SCREW M8-1.25 X 18         320       P9983320       TOP ROLLER SUPPORT         321       PLW04M       LOCK WASHER 8MM         322       PSS41M       SETSCREW M8-1.25 X 18         323       P9983323       TOP ROLLER SUPPORT         324       PSB26M       CAP M6-1.0 X 12MM         325       P9983325       KNOB BOLT M8 X 55         326       P9983326       ECCENTRIC SHAFT         327       PR11M       EXT RETAINING RING 25MM         328       P6205       BEARING 6205ZZ         329       P9983320       TOP ROLLER         330       P9983330       TOP ROLLER SHAFT	314	PS14M	PHLP HD SCR M6-1.0 X 12
317         P9983317         SUPPORT TUBE           318         PLW04M         LOCK WASHER 8MM           319         PSB76M         CAP SCREW M8-1.25 X 18           320         P9983320         TOP ROLLER SUPPORT           321         PLW04M         LOCK WASHER 8MM           322         PSS41M         SETSCREW M8-1.25 X 18           323         P9983323         TOP ECCENTRIC FRAME           324         PSB26M         CAP M6-1.0 X 12MM           325         P9983325         KNOB BOLT M8 X 55           326         P9983326         ECCENTRIC SHAFT           327         PR11M         EXT RETAINING RING 25MM           328         P6205         BEARING 6205ZZ           329         P9983329         TOP ROLLER           330         P9983330         TOP ROLLER SHAFT	315	P9983315	CYLINDER ROLLER FRAME
318         PLW04M         LOCK WASHER 8MM           319         PSB76M         CAP SCREW M8-1.25 X 18           320         P9983320         TOP ROLLER SUPPORT           321         PLW04M         LOCK WASHER 8MM           322         PSS41M         SETSCREW M8-1.25 X 18           323         P9983323         TOP ECCENTRIC FRAME           324         PSB26M         CAP M6-1.0 X 12MM           325         P9983325         KNOB BOLT M8 X 55           326         P9983326         ECCENTRIC SHAFT           327         PR11M         EXT RETAINING RING 25MM           328         P6205         BEARING 6205ZZ           329         P9983320         TOP ROLLER           330         P9983330         TOP ROLLER SHAFT	316	PSS04M	SETSCREW M6-1.0 X 12
319         PSB76M         CAP SCREW M8-1.25 X 18           320         P9983320         TOP ROLLER SUPPORT           321         PLW04M         LOCK WASHER 8MM           322         PSS41M         SETSCREW M8-1.25 X 18           323         P9983323         TOP ECCENTRIC FRAME           324         PSB26M         CAP M6-1.0 X 12MM           325         P9983325         KNOB BOLT M8 X 55           326         P9983326         ECCENTRIC SHAFT           327         PR11M         EXT RETAINING RING 25MM           328         P6205         BEARING 6205ZZ           329         P9983320         TOP ROLLER           330         P9983330         TOP ROLLER SHAFT	317	P9983317	SUPPORT TUBE
320         P9983320         TOP ROLLER SUPPORT           321         PLW04M         LOCK WASHER 8MM           322         PSS41M         SETSCREW M8-1.25 X 18           323         P9983323         TOP ECCENTRIC FRAME           324         PSB26M         CAP M6-1.0 X 12MM           325         P9983325         KNOB BOLT M8 X 55           326         P9983326         ECCENTRIC SHAFT           327         PR11M         EXT RETAINING RING 25MM           328         P6205         BEARING 6205ZZ           329         P9983320         TOP ROLLER           330         P9983330         TOP ROLLER SHAFT	318	PLW04M	LOCK WASHER 8MM
321         PLW04M         LOCK WASHER 8MM           322         PSS41M         SETSCREW M8-1.25 X 18           323         P9983323         TOP ECCENTRIC FRAME           324         PSB26M         CAP M6-1.0 X 12MM           325         P9983325         KNOB BOLT M8 X 55           326         P9983326         ECCENTRIC SHAFT           327         PR11M         EXT RETAINING RING 25MM           328         P6205         BEARING 6205ZZ           329         P9983320         TOP ROLLER           330         P9983330         TOP ROLLER SHAFT	319	PSB76M	CAP SCREW M8-1.25 X 18
322         PSS41M         SETSCREW M8-1.25 X 18           323         P9983323         TOP ECCENTRIC FRAME           324         PSB26M         CAP M6-1.0 X 12MM           325         P9983325         KNOB BOLT M8 X 55           326         P9983326         ECCENTRIC SHAFT           327         PR11M         EXT RETAINING RING 25MM           328         P6205         BEARING 6205ZZ           329         P9983320         TOP ROLLER           330         P9983330         TOP ROLLER SHAFT	320	P9983320	TOP ROLLER SUPPORT
323         P9983323         TOP ECCENTRIC FRAME           324         PSB26M         CAP M6-1.0 X 12MM           325         P9983325         KNOB BOLT M8 X 55           326         P9983326         ECCENTRIC SHAFT           327         PR11M         EXT RETAINING RING 25MM           328         P6205         BEARING 6205ZZ           329         P9983320         TOP ROLLER           330         P9983330         TOP ROLLER SHAFT	321	PLW04M	LOCK WASHER 8MM
324         PSB26M         CAP M6-1.0 X 12MM           325         P9983325         KNOB BOLT M8 X 55           326         P9983326         ECCENTRIC SHAFT           327         PR11M         EXT RETAINING RING 25MM           328         P6205         BEARING 6205ZZ           329         P9983329         TOP ROLLER           330         P9983330         TOP ROLLER SHAFT	322	PSS41M	SETSCREW M8-1.25 X 18
325         P9983325         KNOB BOLT M8 X 55           326         P9983326         ECCENTRIC SHAFT           327         PR11M         EXT RETAINING RING 25MM           328         P6205         BEARING 6205ZZ           329         P9983329         TOP ROLLER           330         P9983330         TOP ROLLER SHAFT	323	P9983323	TOP ECCENTRIC FRAME
326         P9983326         ECCENTRIC SHAFT           327         PR11M         EXT RETAINING RING 25MM           328         P6205         BEARING 6205ZZ           329         P9983329         TOP ROLLER           330         P9983330         TOP ROLLER SHAFT	324	PSB26M	CAP M6-1.0 X 12MM
327         PR11M         EXT RETAINING RING 25MM           328         P6205         BEARING 6205ZZ           329         P9983329         TOP ROLLER           330         P9983330         TOP ROLLER SHAFT	325	P9983325	KNOB BOLT M8 X 55
328         P6205         BEARING 6205ZZ           329         P9983329         TOP ROLLER           330         P9983330         TOP ROLLER SHAFT	326	P9983326	ECCENTRIC SHAFT
329         P9983329         TOP ROLLER           330         P9983330         TOP ROLLER SHAFT	327	PR11M	EXT RETAINING RING 25MM
330 P9983330 TOP ROLLER SHAFT	328	P6205	BEARING 6205ZZ
	329	P9983329	TOP ROLLER
	330	P9983330	TOP ROLLER SHAFT
331 P9983331 TOP COVER	331	P9983331	TOP COVER
332 P9983332 DIAPHRAGM	332	P9983332	DIAPHRAGM
333 PS14M PHLP HD SCR M6-1.0 X 12	333	PS14M	PHLP HD SCR M6-1.0 X 12
334 P9983334 PLATE	334	P9983334	PLATE
335 P9983335 SHAFT	335	P9983335	SHAFT
336 P9983336 SPRING	336	P9983336	SPRING
337 P9983337 BOTTOM COVER	337	P9983337	BOTTOM COVER
338 PS06M PHLP HD SCR M58 X 20	338	PS06M	PHLP HD SCR M58 X 20
			EXT RETAINING RING 15MM
340 PN02M HEX NUT M10-1.5			
341 P9983341 OSCILLATION SQUARE	-	P9983341	OSCILLATION SQUARE

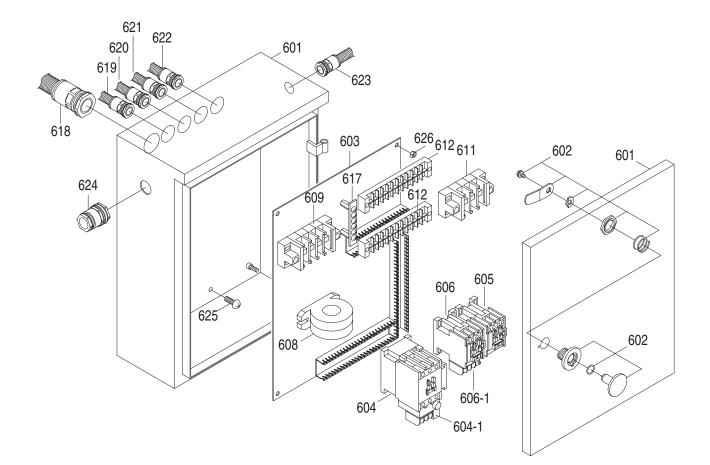
REF	PART #	DESCRIPTION
342	PR11M	EXT RETAINING RING 25MM
343	PR25M	INT RETAINING RING 47MM
344	P6005	BEARING 6005ZZ
345	P9983345	CONTACT ROLLER
346	P9983346	ROLLER SHAFT
347	P9983347	SLEEVE
348	PR11M	RETAINING RING S25
349	PR25M	RETAINING RING R47
350	P6005	BEARING 6005ZZ
351	P9983351	SUPPORT ROLLER
352	P9983352	ROLLER SHAFT
353	P9983353	BUSHING
354	P9983354	ROLLER BASE
355	P9983355	MICROMETER BASE
356	PSB26M	CAP SCREW M6-1.0 X 12
357	P9983357	MICROMETER
358	PSS04M	SETSCREW M6-1.0 X 12
359	P9983359	MAIN WORM GEAR SHAFT
360	P9983360	CONNECTION COUPLING
361	PSS04M	SETSCREW M6-1.0 X 12
362	P9983362	SUPP WORM GEAR SHAFT
363	P9983363	GRAPHITE BASE L
364	P9983364	GRAPHITE BASE R
365	P9983365	WORM GEAR
366	P9983366	GEAR BUSHING
367	PLW04M	LOCK WASHER 8MM
368	PB03M	HEX BOLT M8-1.25 X 16
369	P9983369	VERT MICROMETER SCREW
370	P9983370	PLATEN (MALE)
371	PW01M	FLAT WASHER 8MM
-		CAP SCREW M8-1.25 X 12
		PLATEN (FEMALE)
		CARBON GRAPHITE
-	P9983375	
	PW05M	FLAT WASHER 4MM
	PS02M	PHLP HD SCR M47 X 12
	P9983378	LINING 30 X 415MM
_	PLW07M	LOCK WASHER 20MM
	PN17M	HEX NUT M20-1.5
381	P9983381	SANDING BELT 16"W X 48"

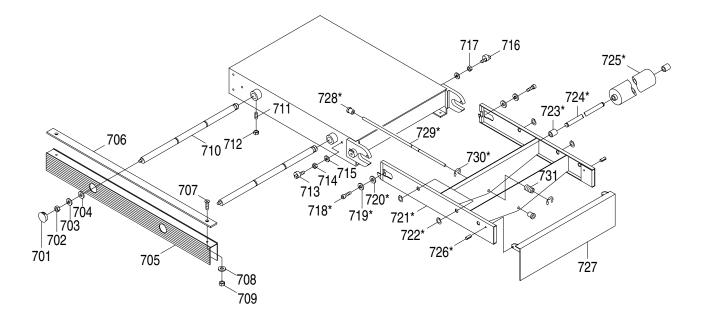




REF	PART #	DESCRIPTION
401	P9983401	MACHINE FRAME
402	P9983402	ACCESS DOOR RH
403	P9983403	ACCESS DOOR LH
404	P9983404	LOCK
405	P9983405	OPERATING PANEL
406	P9983406	LOAD METER
407	P9983407	POWER INDICATOR
408	P9983408	START BUTTON
409	P9983409	STOP BUTTON
410	P9983410	EMERGENCY STOP BUTTON
411	PS47M	PHLP HD SCR M6-1.0 X 25
412	P9983412	PRESSURE ROLLER FRAME
413	PLW03M	LOCK WASHER 6MM
414	PSB06M	CAP SCREW M6-1.0 X 25
415	P9983415	TILTING ARM
416	PSS26M	SETSCREW M5-08 X 6
417	P9983417	SPRING
418	P9983418	SPRING HOOK
419	PW01M	FLAT WASHER 8MM
420	PN03M	HEX NUT M8
421	P9983421	SET PIN
422	PR01M	EXT RETAINING RING 10MM
423	P9983423	BEARING COVER
424	P6001	BEARING 6001ZZ
425	P9983425	PRESSURE ROLLER
426	P9983426	PRESSURE SHAFT
427	P9983427	SPECIAL NUT M8-1.25
428	PSS42M	SETSCREW M8-1.25 X 50
429	P9983429	PLASTIC CONNECTOR L6-1/8"
430	P9983430	SWITCHING VALVE 1/8"
431	P9983431	SILENCER 1/8"
432	P9983432	PLASTIC CONNECTOR C6-1/8"
433	P9983433	LINING
434	PS49M	PHLP HD SCR M35 X 5
436	PS02M	PHLP HD SCR M47 X 12
437	P9983437	TOP ALUMINUM COVER
438	PS06M	PHLP HD SCR M58 X 20
439	P9983439	PLASTIC CONNECT M6 X 1/4"
440	P9983440	PLATE
441	P9983441	DIAPHRAGM
442	P9983442	BOTTOM ALUMINUM COVER
443	P9983443	PLASTIC CONNECT 1/8" X 1/8"
444	P9983444	CUP 1/4"

445       P9983445       CONNECTOR ¼"         446       P9983446       PLASTIC CONNECT C6-¼"         501       P9983501       SWITCHING VALVE         502       PS12M       PHLP HD SCR M35 X 6         503       PS12M       PHLP HD SCR M35 X 6         504       P9983505       SILENCER ¼"         505       P9983506       PLASTIC CONNECT L6-¼"         506       P9983507       PLASTIC CONNECT C6-¼"         507       P9983508       SENSOR PIN         508       P9983509       LIMIT SWITCH 8166         510       PS50M       PHLP HD SCR M35 X 12         511       PS50M       PHLP HD SCR M35 X 12         512       P9983513       PLASTIC CONNECT C6-¼"         513       P9983514       PLASTIC CONNECT C6-¼"         514       P9983516       PLASTIC CONNECT C6-¼"         515       PS52M       PHLP HD SCR M47 X 20         516       P9983518       PLASTIC CONNECT C6-¼"         517       P9983519       PLASTIC CONNECT C6-¼"         518       P9983520       AIR EYELET (OUT) ¾"         521       P9983523       PLASTIC CONNECT L6-¼"         522       P9983524       AIR VALVE ¼" <td< th=""><th>REF</th><th>PART #</th><th>DESCRIPTION</th></td<>	REF	PART #	DESCRIPTION
501         P9983501         SWITCHING VALVE           502         PS12M         PHLP HD SCR M35 X 6           503         PS12M         PHLP HD SCR M35 X 6           504         P9983504         LIMIT SWITCH PANEL           505         P9983505         SILENCER 1%"           506         P9983506         PLASTIC CONNECT L6-1%"           507         P9983507         PLASTIC CONNECT C6-1%"           508         P9983509         LIMIT SWITCH 8166           510         PS50M         PHLP HD SCR M35 X 12           511         PS50M         PHLP HD SCR M35 X 12           512         P9983512         AIR VALVE 1%"           513         P9983513         PLASTIC CONNECT C6-1%"           514         P9983514         PLASTIC CONNECT C6-1%"           515         PS52M         PHLP HD SCR M47 X 20           516         P9983517         PLASTIC CONNECT C6-1%"           517         P9983518         PLASTIC CONNECT C6-1%"           518         P9983520         AIR EYELET (OUT) %"           521         P9983521         BRASS NUT %"-UNF           522         P9983523         PLASTIC CONNECT L6-1%"           524         P9983524         AIR VALVE 1%"	445	P9983445	CONNECTOR 1/4"
502         PS12M         PHLP HD SCR M35 X 6           503         PS12M         PHLP HD SCR M35 X 6           504         P9983504         LIMIT SWITCH PANEL           505         P9983505         SILENCER ¼"           506         P9983506         PLASTIC CONNECT L6-¼"           507         P9983507         PLASTIC CONNECT C6-¼"           508         P9983508         SENSOR PIN           509         P9983509         LIMIT SWITCH 8166           510         PS50M         PHLP HD SCR M35 X 12           511         PS50M         PHLP HD SCR M35 X 12           512         P9983512         AIR VALVE ¼"           513         P9983513         PLASTIC CONNECT C6-¼"           514         P9983514         PLASTIC CONNECT L6-¼"           515         PS52M         PHLP HD SCR M47 X 20           516         P9983518         PLASTIC CONNECT C6-1%"           517         P9983518         PLASTIC CONNECT C6-1%"           518         P9983520         AIR EYELET (OUT) ¾"           521         P9983521         BRASS NUT ¾"-UNF           522         P9983523         PLASTIC CONNECT L6-1%"           524         P9983525         PLASTIC CONNECT L6-1%" </td <td>446</td> <td>P9983446</td> <td>PLASTIC CONNECT C6-1/4"</td>	446	P9983446	PLASTIC CONNECT C6-1/4"
503         PS12M         PHLP HD SCR M35 X 6           504         P9983504         LIMIT SWITCH PANEL           505         P9983505         SILENCER ¼"           506         P9983506         PLASTIC CONNECT L6-¼"           507         P9983507         PLASTIC CONNECT C6-¼"           508         P9983508         SENSOR PIN           509         P9983509         LIMIT SWITCH 8166           510         PS50M         PHLP HD SCR M35 X 12           511         PS50M         PHLP HD SCR M35 X 12           512         P9983512         AIR VALVE ¼"           513         P9983513         PLASTIC CONNECT C6-¼"           514         P9983514         PLASTIC CONNECT L6-¼"           515         PS52M         PHLP HD SCR M47 X 20           516         P983517         PLASTIC CONNECT 67           517         P9983518         PLASTIC CONNECT 64           519         PN11         HEX NUT ¾"-24           520         P9983520         AIR EYELET (OUT) ¾"           521         P9983523         PLASTIC CONNECT L6-¼"           522         P9983523         PLASTIC CONNECT L6-¼"           524         P9983525         PLASTIC CONNECT L6-¼"	501	P9983501	SWITCHING VALVE
504         P9983504         LIMIT SWITCH PANEL           505         P9983505         SILENCER ¼"           506         P9983506         PLASTIC CONNECT L6-¼"           507         P9983507         PLASTIC CONNECT C6-¼"           508         P9983509         LIMIT SWITCH 8166           510         PS50M         PHLP HD SCR M35 X 12           511         PS50M         PHLP HD SCR M35 X 12           512         P9983513         PLASTIC CONNECT C6-¼"           513         P9983514         PLASTIC CONNECT L6-¼"           514         P9983516         PLASTIC CONNECT 61-¼"           515         PS52M         PHLP HD SCR M47 X 20           516         P9983516         PLASTIC CONNECT 64           517         P9983517         PLASTIC CONNECT 61           518         P983518         PLASTIC CONNECT 61           519         PN11         HEX NUT ¾"-24           520         P9983520         AIR EYELET (OUT) ¾"           521         P9983521         BRASS NUT ¾"-UNF           522         P9983523         PLASTIC CONNECT 16-¼"           523         P9983524         AIR VALVE ¼"           524         P9983525         PLASTIC CONNECT 16-¼"      <	502	PS12M	PHLP HD SCR M35 X 6
505         P9983505         SILENCER ¼"           506         P9983506         PLASTIC CONNECT L6-¼"           507         P9983507         PLASTIC CONNECT C6-¼"           508         P9983509         LIMIT SWITCH 8166           510         PS50M         PHLP HD SCR M3-5 X 12           511         PS50M         PHLP HD SCR M3-5 X 12           512         P9983512         AIR VALVE ¼"           513         P9983513         PLASTIC CONNECT C6-¼"           514         P9983514         PLASTIC CONNECT L6-¼"           515         PS52M         PHLP HD SCR M4-7 X 20           516         P9983516         PLASTIC CONNECT 64Y           517         P9983517         PLASTIC CONNECT 61           518         P9983518         PLASTIC CONNECT 61           519         PN11         HEX NUT ¾"-24           520         P9983520         AIR EYELET (OUT) ¾"           521         P9983521         BRASS NUT ¾"-UNF           522         P9983523         PLASTIC CONNECT 16-¼"           521         P9983524         AIR VALVE ¼"           522         P9983525         PLASTIC CONNECT 16-¼"           523         P9983526         SOLENOID VALVE ¼" X ½"	503	PS12M	PHLP HD SCR M35 X 6
506         P9983506         PLASTIC CONNECT L6-¼"           507         P9983507         PLASTIC CONNECT C6-¼"           508         P9983509         LIMIT SWITCH 8166           510         PS50M         PHLP HD SCR M35 X 12           511         PS50M         PHLP HD SCR M35 X 12           512         P9983512         AIR VALVE ¼"           513         P9983513         PLASTIC CONNECT C6-¼"           514         P9983514         PLASTIC CONNECT L6-¼"           515         PS52M         PHLP HD SCR M47 X 20           516         P9983517         PLASTIC CONNECT 61           517         P9983518         PLASTIC CONNECT 61           518         P9983520         AIR EYELET (OUT) ¾"           521         P9983521         BRASS NUT ¾"-UNF           522         P9983523         PLASTIC CONNECT 16-¼"           524         P9983524         AIR VALVE ¼"           525         P9983525         PLASTIC CONNECT 16-¼"           526         P9983526         SOLENOID VALVE ¼" X ¾"           526         P9983527         PLASTIC CONNECT L6-¼"           527         P9983528         PLASTIC CONNECT L6-¼"           528         P9983529         SILENCER ¼"	504	P9983504	LIMIT SWITCH PANEL
507         P9983507         PLASTIC CONNECT C6-1/8"           508         P9983508         SENSOR PIN           509         P9983509         LIMIT SWITCH 8166           510         PS50M         PHLP HD SCR M35 X 12           511         PS50M         PHLP HD SCR M35 X 12           512         P9983512         AIR VALVE 1/8"           513         P9983513         PLASTIC CONNECT C6-1/8"           514         P9983514         PLASTIC CONNECT C6-1/8"           515         PS52M         PHLP HD SCR M47 X 20           516         P9983517         PLASTIC CONNECT 64           517         P9983518         PLASTIC CONNECT 66-1/8"           518         P9983520         AIR EYELET (OUT) 3/8"           521         P9983521         BRASS NUT 3/8"-UNF           522         P9983523         PLASTIC CONNECT 16-1/8"           524         P9983524         AIR VALVE 1/8"           525         P9983525         PLASTIC CONNECT 16-1/8"           526         P9983526         SOLENOID VALVE 1/8" X 220V           527         P9983528         PLASTIC CONNECT 16-1/8"           528         P9983529         SILENCER 1/8"           529         P9983530         CONNECTOR </td <td>505</td> <td>P9983505</td> <td>SILENCER 1/8"</td>	505	P9983505	SILENCER 1/8"
508         P9983508         SENSOR PIN           509         P9983509         LIMIT SWITCH 8166           510         PS50M         PHLP HD SCR M35 X 12           511         PS50M         PHLP HD SCR M35 X 12           512         P9983512         AIR VALVE ¼"           513         P9983513         PLASTIC CONNECT C6-¼"           514         P9983514         PLASTIC CONNECT L6-¼"           515         PS52M         PHLP HD SCR M47 X 20           516         P9983516         PLASTIC CONNECT 64           517         P9983517         PLASTIC CONNECT 61           518         P983518         PLASTIC CONNECT 66-¼"           519         PN11         HEX NUT ¾"-24           520         P9983521         BRASS NUT ¾"-24           521         P9983521         BRASS NUT ¾"-24           522         P9983523         PLASTIC CONNECT 16-¼"           523         P9983523         PLASTIC CONNECT 1½" X ¾"           524         P9983525         PLASTIC CONNECT 16-¼"           525         P9983526         SOLENOID VALVE ½" X 220V           527         P9983528         PLASTIC CONNECT 16-½"           528         P9983529         SILENCER ½"	506	P9983506	PLASTIC CONNECT L6-1/8"
509         P9983509         LIMIT SWITCH 8166           510         PS50M         PHLP HD SCR M35 X 12           511         PS50M         PHLP HD SCR M35 X 12           512         P9983512         AIR VALVE 1/8"           513         P9983513         PLASTIC CONNECT C6-1/8"           514         P9983514         PLASTIC CONNECT L6-1/8"           515         PS52M         PHLP HD SCR M47 X 20           516         P9983516         PLASTIC CONNECT 64           517         P9983517         PLASTIC CONNECT 66-1/8"           518         P983518         PLASTIC CONNECT C6-1/8"           519         PN11         HEX NUT 3/8"-24           520         P9983520         AIR EYELET (OUT) 3/8"           521         P9983521         BRASS NUT 3/8"-UNF           522         P9983522         BUSHING 10MM           523         P9983523         PLASTIC CONNECT 1/8" X 3/8"           524         P9983524         AIR VALVE 1/8"           525         P9983525         PLASTIC CONNECT L6-1/8"           526         P9983527         PLASTIC CONNECT L6-1/8"           527         P9983528         PLASTIC CONNECT L6-1/8"           528         P9983530         CONNECTOR </td <td>507</td> <td>P9983507</td> <td>PLASTIC CONNECT C6-1/8"</td>	507	P9983507	PLASTIC CONNECT C6-1/8"
510       PS50M       PHLP HD SCR M35 X 12         511       PS50M       PHLP HD SCR M35 X 12         512       P9983512       AIR VALVE 1/8"         513       P9983513       PLASTIC CONNECT C6-1/8"         514       P9983514       PLASTIC CONNECT L6-1/8"         515       PS52M       PHLP HD SCR M47 X 20         516       P9983516       PLASTIC CONNECT 6Y         517       P9983517       PLASTIC CONNECT 6T         518       P9983518       PLASTIC CONNECT C6-1/8"         519       PN11       HEX NUT 3/8"-24         520       P9983520       AIR EYELET (OUT) 3/8"         521       P9983521       BRASS NUT 3/8"-UNF         522       P9983523       PLASTIC CONNECT 1/8" X 3/8"         524       P9983524       AIR VALVE 1/8"         525       P9983525       PLASTIC CONNECT L6-1/8"         526       P9983526       SOLENOID VALVE 1/8" X 220V         527       P9983527       PLASTIC CONNECT L6-1/8"         528       P9983528       PLASTIC CONNECT L6-1/8"         529       P9983529       SILENCER 1/8"         530       P9983533       CONNECTOR         531       PS25M       PHLP HD SCR M47 X 35	508	P9983508	SENSOR PIN
511         PS50M         PHLP HD SCR M3-5 X 12           512         P9983512         AIR VALVE ¼"           513         P9983513         PLASTIC CONNECT C6-¼"           514         P9983514         PLASTIC CONNECT L6-¼"           515         PS52M         PHLP HD SCR M47 X 20           516         P9983516         PLASTIC CONNECT 6Y           517         P9983517         PLASTIC CONNECT 6T           518         P9983518         PLASTIC CONNECT 6-¼"           519         PN11         HEX NUT ¾"-24           520         P9983520         AIR EYELET (OUT) ¾"           521         P9983521         BRASS NUT ¾"-UNF           522         P9983523         PLASTIC CONNECT 1/6" X ¾"           523         P9983524         AIR VALVE ½"           524         P9983525         PLASTIC CONNECT L6-½"           525         P9983526         SOLENOID VALVE ½" X 220V           527         P9983528         PLASTIC CONNECT L6-½"           528         P9983529         SILENCER ½"           530         P9983530         CONNECTOR           531         PS25M         PHLP HD SCR M47 X 35           532         PN04M         HEX NUT M47 <td< td=""><td>509</td><td>P9983509</td><td>LIMIT SWITCH 8166</td></td<>	509	P9983509	LIMIT SWITCH 8166
512       P9983512       AIR VALVE ¼"         513       P9983513       PLASTIC CONNECT C6-¼"         514       P9983514       PLASTIC CONNECT L6-¼"         515       PS52M       PHLP HD SCR M47 X 20         516       P9983516       PLASTIC CONNECT 6Y         517       P9983517       PLASTIC CONNECT 6T         518       P9983518       PLASTIC CONNECT C6-¼"         519       PN11       HEX NUT ¾"-24         520       P9983520       AIR EYELET (OUT) ¾"         521       P9983521       BRASS NUT ¾"-UNF         522       P9983523       PLASTIC CONNECT 1/a" X ¾"         523       P9983523       PLASTIC CONNECT 1/a" X ¾"         524       P9983524       AIR VALVE 1/a"         525       P9983525       PLASTIC CONNECT L6-1/a"         526       P9983526       SOLENOID VALVE ½" X 220V         527       P9983528       PLASTIC CONNECT L6-1/a"         528       P9983529       SILENCER 1/a"         529       P9983529       SILENCER 1/a"         530       P9983530       CONNECTOR         531       PS25M       PHLP HD SCR M47 X 35         532       PN04M       HEX NUT M47         533<	510	PS50M	PHLP HD SCR M35 X 12
513       P9983513       PLASTIC CONNECT C6-1/8"         514       P9983514       PLASTIC CONNECT L6-1/8"         515       PS52M       PHLP HD SCR M47 X 20         516       P9983516       PLASTIC CONNECT 6Y         517       P9983517       PLASTIC CONNECT 6T         518       P9983518       PLASTIC CONNECT C6-1/8"         519       PN11       HEX NUT 3/8"-24         520       P9983520       AIR EYELET (OUT) 3/8"         521       P9983521       BRASS NUT 3/8"-UNF         522       P9983523       PLASTIC CONNECT 1/8" X 3/8"         524       P9983523       PLASTIC CONNECT L6-1/8"         525       P9983525       PLASTIC CONNECT L6-1/8"         526       P9983526       SOLENOID VALVE 1/8" X 220V         527       P9983527       PLASTIC CONNECT L6-1/8"         528       P9983528       PLASTIC CONNECT L6-1/8"         529       P9983529       SILENCER 1/8"         530       P9983530       CONNECTOR         531       PS25M       PHLP HD SCR M47 X 35         532       PN04M       HEX NUT M47         533       P983533       PRESSURE GAUGE K-1000FR2         534       P9983534       PLASTIC CONNECT L6	511	PS50M	PHLP HD SCR M35 X 12
514       P9983514       PLASTIC CONNECT L6-1/8"         515       PS52M       PHLP HD SCR M47 X 20         516       P9983516       PLASTIC CONNECT 6Y         517       P9983517       PLASTIC CONNECT 6T         518       P9983518       PLASTIC CONNECT C6-1/8"         519       PN11       HEX NUT 3/8"-24         520       P9983520       AIR EYELET (OUT) 3/8"         521       P9983521       BRASS NUT 3/8"-UNF         522       P9983523       PLASTIC CONNECT 1/8" X 3/8"         524       P9983524       AIR VALVE 1/8"         525       P9983525       PLASTIC CONNECT L6-1/8"         526       P9983526       SOLENOID VALVE 1/8" X 220V         527       P9983527       PLASTIC CONNECT L6-1/8"         528       P9983528       PLASTIC CONNECT L6-1/8"         529       P9983529       SILENCER 1/8"         530       P9983530       CONNECTOR         531       PS25M       PHLP HD SCR M47 X 35         532       PN04M       HEX NUT M47         533       P9983533       PRESSURE GAUGE K-1000FR2         534       P9983534       PLASTIC CONNECT L6-1/4"         535       P9983535       AIR COCK 1/4" X 5/16"	512	P9983512	AIR VALVE 1/8"
515         PS52M         PHLP HD SCR M47 X 20           516         P9983516         PLASTIC CONNECT 6Y           517         P9983517         PLASTIC CONNECT 6T           518         P9983518         PLASTIC CONNECT C6-1/8"           519         PN11         HEX NUT 3/8"-24           520         P9983520         AIR EYELET (OUT) 3/8"           521         P9983521         BRASS NUT 3/8"-UNF           522         P9983523         PLASTIC CONNECT 1/8" X 3/8"           523         P9983524         AIR VALVE 1/8"           524         P9983525         PLASTIC CONNECT L6-1/8"           525         P9983526         SOLENOID VALVE 1/8" X 220V           527         P9983527         PLASTIC CONNECT L6-1/8"           528         P9983528         PLASTIC CONNECT L6-1/8"           529         P9983529         SILENCER 1/8"           530         P9983530         CONNECTOR           531         PS25M         PHLP HD SCR M47 X 35           532         PN04M         HEX NUT M47           533         P9983533         PRESSURE GAUGE K-1000FR2           534         P9983534         PLASTIC CONNECT L6-1/4"           535         P9983535         AIR COCK 1/4" X 5	513	P9983513	PLASTIC CONNECT C6-1/8"
516         P9983516         PLASTIC CONNECT 6Y           517         P9983517         PLASTIC CONNECT 6T           518         P9983518         PLASTIC CONNECT C6-1/8"           519         PN11         HEX NUT 3/8"-24           520         P9983520         AIR EYELET (OUT) 3/8"           521         P9983521         BRASS NUT 3/8"-UNF           522         P9983523         PLASTIC CONNECT 1/8" X 3/8"           523         P9983524         AIR VALVE 1/8"           524         P9983525         PLASTIC CONNECT 1/6" X 3/8"           524         P9983526         SOLENOID VALVE 1/8" X 220V           527         P9983526         SOLENOID VALVE 1/8" X 220V           527         P9983527         PLASTIC CONNECT L6-1/8"           528         P9983528         PLASTIC CONNECT L6-1/8"           529         P9983529         SILENCER 1/8"           530         P9983530         CONNECTOR           531         PS25M         PHLP HD SCR M47 X 35           532         PN04M         HEX NUT M47           533         P9983533         PRESSURE GAUGE K-1000FR2           534         P9983535         AIR COCK 1/4" X 5/16"           535         P9983535         AIR COCK	514	P9983514	PLASTIC CONNECT L6-1/8"
517       P9983517       PLASTIC CONNECT 6T         518       P9983518       PLASTIC CONNECT C6-1/8"         519       PN11       HEX NUT 3/8"-24         520       P9983520       AIR EYELET (OUT) 3/8"         521       P9983521       BRASS NUT 3/8"-UNF         522       P9983523       PLASTIC CONNECT 1/8" X 3/8"         523       P9983524       AIR VALVE 1/8"         524       P9983525       PLASTIC CONNECT 16-1/8"         525       P9983526       SOLENOID VALVE 1/8" X 220V         527       P9983527       PLASTIC CONNECT 16-1/8"         526       P9983528       PLASTIC CONNECT 16-1/8"         527       P9983529       SILENCER 1/8"         528       P9983529       SILENCER 1/8"         529       P9983520       CONNECTOR         531       PS25M       PHLP HD SCR M47 X 35         532       PN04M       HEX NUT M47         533       P9983533       PRESSURE GAUGE K-1000FR2         534       P9983534       PLASTIC CONNECT L6-1/4"         535       P9983535       AIR COCK 1/4" X 5/16"         536       PW03M       FLAT WASHER 6MM         537       PS14M       PHLP HD SCR M6-1.0 X 12	515	PS52M	PHLP HD SCR M47 X 20
518         P9983518         PLASTIC CONNECT C6-1/8"           519         PN11         HEX NUT 3/8"-24           520         P9983520         AIR EYELET (OUT) 3/8"           521         P9983521         BRASS NUT 3/8"-UNF           522         P9983523         PLASTIC CONNECT 1/8" X 3/8"           523         P9983524         AIR VALVE 1/8"           524         P9983525         PLASTIC CONNECT L6-1/8"           525         P9983526         SOLENOID VALVE 1/8" X 220V           527         P9983527         PLASTIC CONNECT L6-1/8"           528         P9983528         PLASTIC CONNECT L6-1/8"           529         P9983529         SILENCER 1/8"           529         P9983529         SILENCER 1/8"           530         P9983530         CONNECTOR           531         PS25M         PHLP HD SCR M47 X 35           532         PN04M         HEX NUT M47           533         P9983533         PRESSURE GAUGE K-1000FR2           534         P9983534         PLASTIC CONNECT L6-1/4"           535         P983535         AIR COCK 1/4" X 5/16"           536         PW03M         FLAT WASHER 6MM           537         PS14M         PHLP HD SCR M6-1.0 X 12	516	P9983516	PLASTIC CONNECT 6Y
519         PN11         HEX NUT ¾"-24           520         P9983520         AIR EYELET (OUT) ¾"           521         P9983521         BRASS NUT ¾"-UNF           522         P9983522         BUSHING 10MM           523         P9983523         PLASTIC CONNECT ¼" X ¾"           524         P9983524         AIR VALVE ¼"           525         P9983525         PLASTIC CONNECT L6-¼"           526         P9983526         SOLENOID VALVE ¼" X 220V           527         P9983526         SOLENOID VALVE ¼" X 220V           527         P9983527         PLASTIC CONNECT L6-¼"           528         P9983528         PLASTIC CONNECT L6-¼"           529         P9983529         SILENCER ½"           520         P9983530         CONNECTOR           531         PS25M         PHLP HD SCR M47 X 35           532         PN04M         HEX NUT M47           533         P9983533         PRESSURE GAUGE K-1000FR2           534         P9983534         PLASTIC CONNECT L6-¼"           535         P9983535         AIR COCK ¼" X ⁵₁6"           536         PW03M         FLAT WASHER 6MM           537         PS14M         PHLP HD SCR M6-1.0 X 12	517	P9983517	PLASTIC CONNECT 6T
520         P9983520         AIR EYELET (OUT) ¾"           521         P9983521         BRASS NUT ¾"-UNF           522         P9983522         BUSHING 10MM           523         P9983523         PLASTIC CONNECT ¼" X ¾"           524         P9983524         AIR VALVE ¼"           525         P9983525         PLASTIC CONNECT L6-¼"           526         P9983526         SOLENOID VALVE ¼" X 220V           527         P9983527         PLASTIC CONNECT B6-¼"           528         P9983528         PLASTIC CONNECT L6-¼"           529         P9983529         SILENCER ½"           520         P9983530         CONNECTOR           531         PS25M         PHLP HD SCR M47 X 35           532         PN04M         HEX NUT M47           533         P9983533         PRESSURE GAUGE K-1000FR2           534         P9983534         PLASTIC CONNECT L6-¼"           535         P9983535         AIR COCK ¼" X ⁵₁6"           536         PW03M         FLAT WASHER 6MM           537         PS14M         PHLP HD SCR M6-1.0 X 12           538         P9983538         TENSION CYLINDER 63 X 40ST           539         P9983539         PLASTIC CONNECT C6-1/8"  <	518	P9983518	PLASTIC CONNECT C6-1/8"
521       P9983521       BRASS NUT ¾"-UNF         522       P9983522       BUSHING 10MM         523       P9983523       PLASTIC CONNECT 1½" X ¾"         524       P9983524       AIR VALVE 1½"         525       P9983525       PLASTIC CONNECT L6-1½"         526       P9983526       SOLENOID VALVE 1½" X 220V         527       P9983527       PLASTIC CONNECT B6-1½"         528       P9983528       PLASTIC CONNECT L6-1½"         529       P9983529       SILENCER 1½"         520       P9983530       CONNECTOR         531       PS25M       PHLP HD SCR M47 X 35         532       PN04M       HEX NUT M47         533       P9983533       PRESSURE GAUGE K-1000FR2         534       P9983534       PLASTIC CONNECT L6-1/4"         535       P9983535       AIR COCK 1/4" X 5/16"         536       PW03M       FLAT WASHER 6MM         537       PS14M       PHLP HD SCR M6-1.0 X 12         538       P9983538       TENSION CYLINDER 63 X 40ST         539       P9983539       PLASTIC CONNECT C6-1/8"	519	PN11	HEX NUT 3/8"-24
522         P9983522         BUSHING 10MM           523         P9983523         PLASTIC CONNECT 1/8" X 3/8"           524         P9983524         AIR VALVE 1/8"           525         P9983525         PLASTIC CONNECT L6-1/8"           526         P9983526         SOLENOID VALVE 1/8" X 220V           527         P9983527         PLASTIC CONNECT B6-1/8"           528         P9983528         PLASTIC CONNECT L6-1/8"           529         P9983529         SILENCER 1/8"           529         P9983529         SILENCER 1/8"           530         P9983530         CONNECTOR           531         PS25M         PHLP HD SCR M47 X 35           532         PN04M         HEX NUT M47           533         P9983533         PRESSURE GAUGE K-1000FR2           534         P9983534         PLASTIC CONNECT L6-1/4"           535         P9983535         AIR COCK 1/4" X 5/16"           536         PW03M         FLAT WASHER 6MM           537         PS14M         PHLP HD SCR M6-1.0 X 12           538         P9983538         TENSION CYLINDER 63 X 40ST           539         P9983539         PLASTIC CONNECT C6-1/8"	520	P9983520	AIR EYELET (OUT) 3/8"
523         P9983523         PLASTIC CONNECT ¼" X ¾"           524         P9983524         AIR VALVE ¼"           525         P9983525         PLASTIC CONNECT L6-¼"           526         P9983526         SOLENOID VALVE ¼" X 220V           527         P9983527         PLASTIC CONNECT B6-¼"           528         P9983528         PLASTIC CONNECT L6-¼"           529         P9983529         SILENCER ½"           520         P9983530         CONNECTOR           531         PS25M         PHLP HD SCR M47 X 35           532         PN04M         HEX NUT M47           533         P9983533         PRESSURE GAUGE K-1000FR2           534         P9983534         PLASTIC CONNECT L6-¼"           535         P9983535         AIR COCK ¼" X ⁵/16"           536         PW03M         FLAT WASHER 6MM           537         PS14M         PHLP HD SCR M6-1.0 X 12           538         P9983538         TENSION CYLINDER 63 X 40ST           539         P9983539         PLASTIC CONNECT C6-¼"	521	P9983521	BRASS NUT <sup>3</sup> / <sub>8</sub> "-UNF
524         P9983524         AIR VALVE ¼"           525         P9983525         PLASTIC CONNECT L6-¼"           526         P9983526         SOLENOID VALVE ½" X 220V           527         P9983527         PLASTIC CONNECT B6-¼"           528         P9983528         PLASTIC CONNECT L6-¼"           529         P9983529         SILENCER ½"           530         P9983530         CONNECTOR           531         PS25M         PHLP HD SCR M47 X 35           532         PN04M         HEX NUT M47           533         P9983533         PRESSURE GAUGE K-1000FR2           534         P9983534         PLASTIC CONNECT L6-¼"           535         P9983535         AIR COCK ¼" X ⁵⁄16"           536         PW03M         FLAT WASHER 6MM           537         PS14M         PHLP HD SCR M6-1.0 X 12           538         P9983538         TENSION CYLINDER 63 X 40ST           539         P9983539         PLASTIC CONNECT C6-1/8"	522	P9983522	BUSHING 10MM
525         P9983525         PLASTIC CONNECT L6-½"           526         P9983526         SOLENOID VALVE ½" X 220V           527         P9983527         PLASTIC CONNECT B6-½"           528         P9983528         PLASTIC CONNECT L6-½"           529         P9983529         SILENCER ½"           530         P9983530         CONNECTOR           531         PS25M         PHLP HD SCR M47 X 35           532         PN04M         HEX NUT M47           533         P9983533         PRESSURE GAUGE K-1000FR2           534         P9983534         PLASTIC CONNECT L6-¼"           535         P9983535         AIR COCK ¼" X 5/16"           536         PW03M         FLAT WASHER 6MM           537         PS14M         PHLP HD SCR M6-1.0 X 12           538         P9983538         TENSION CYLINDER 63 X 40ST           539         P9983539         PLASTIC CONNECT C6-½"	523	P9983523	PLASTIC CONNECT 1/8" X 3/8"
526         P9983526         SOLENOID VALVE ¼" X 220V           527         P9983527         PLASTIC CONNECT B6-¼"           528         P9983528         PLASTIC CONNECT L6-¼"           529         P9983529         SILENCER ¼"           520         P9983530         CONNECTOR           531         PS25M         PHLP HD SCR M47 X 35           532         PN04M         HEX NUT M47           533         P9983533         PRESSURE GAUGE K-1000FR2           534         P9983534         PLASTIC CONNECT L6-¼"           535         P9983535         AIR COCK ¼" X ⁵/16"           536         PW03M         FLAT WASHER 6MM           537         PS14M         PHLP HD SCR M6-1.0 X 12           538         P9983538         TENSION CYLINDER 63 X 40ST           539         P9983539         PLASTIC CONNECT C6-1/8"	524	P9983524	AIR VALVE 1/8"
527         P9983527         PLASTIC CONNECT B6-1/8"           528         P9983528         PLASTIC CONNECT L6-1/8"           529         P9983529         SILENCER 1/8"           530         P9983530         CONNECTOR           531         PS25M         PHLP HD SCR M47 X 35           532         PN04M         HEX NUT M47           533         P9983533         PRESSURE GAUGE K-1000FR2           534         P9983534         PLASTIC CONNECT L6-1/4"           535         P9983535         AIR COCK 1/4" X 5/16"           536         PW03M         FLAT WASHER 6MM           537         PS14M         PHLP HD SCR M6-1.0 X 12           538         P9983538         TENSION CYLINDER 63 X 40ST           539         P9983539         PLASTIC CONNECT C6-1/8"	525	P9983525	PLASTIC CONNECT L6-1/8"
528         P9983528         PLASTIC CONNECT L6-½"           529         P9983529         SILENCER ½"           530         P9983530         CONNECTOR           531         PS25M         PHLP HD SCR M47 X 35           532         PN04M         HEX NUT M47           533         P9983533         PRESSURE GAUGE K-1000FR2           534         P9983534         PLASTIC CONNECT L6-¼"           535         P9983535         AIR COCK ¼" X ⁵/16"           536         PW03M         FLAT WASHER 6MM           537         PS14M         PHLP HD SCR M6-1.0 X 12           538         P9983538         TENSION CYLINDER 63 X 40ST           539         P9983539         PLASTIC CONNECT C6-½"	526	P9983526	SOLENOID VALVE 1/8" X 220V
529       P9983529       SILENCER ¼"         530       P9983530       CONNECTOR         531       PS25M       PHLP HD SCR M47 X 35         532       PN04M       HEX NUT M47         533       P9983533       PRESSURE GAUGE K-1000FR2         534       P9983534       PLASTIC CONNECT L6-¼"         535       P9983535       AIR COCK ¼" X 5/16"         536       PW03M       FLAT WASHER 6MM         537       PS14M       PHLP HD SCR M6-1.0 X 12         538       P9983538       TENSION CYLINDER 63 X 40ST         539       P9983539       PLASTIC CONNECT C6-¼"	527	P9983527	PLASTIC CONNECT B6-1/8"
530         P9983530         CONNECTOR           531         PS25M         PHLP HD SCR M47 X 35           532         PN04M         HEX NUT M47           533         P9983533         PRESSURE GAUGE K-1000FR2           534         P9983534         PLASTIC CONNECT L6-1/4"           535         P9983535         AIR COCK 1/4" X 5/16"           536         PW03M         FLAT WASHER 6MM           537         PS14M         PHLP HD SCR M6-1.0 X 12           538         P9983538         TENSION CYLINDER 63 X 40ST           539         P9983539         PLASTIC CONNECT C6-1/8"	528	P9983528	PLASTIC CONNECT L6-1/8"
531         PS25M         PHLP HD SCR M47 X 35           532         PN04M         HEX NUT M47           533         P9983533         PRESSURE GAUGE K-1000FR2           534         P9983534         PLASTIC CONNECT L6-¼"           535         P9983535         AIR COCK ¼" X ⁵/16"           536         PW03M         FLAT WASHER 6MM           537         PS14M         PHLP HD SCR M6-1.0 X 12           538         P9983538         TENSION CYLINDER 63 X 40ST           539         P9983539         PLASTIC CONNECT C6-½"	529	P9983529	SILENCER 1/8"
532         PN04M         HEX NUT M47           533         P9983533         PRESSURE GAUGE к-1000FR2           534         P9983534         PLASTIC CONNECT L6-1/4"           535         P9983535         AIR COCK 1/4" X 5/16"           536         PW03M         FLAT WASHER 6MM           537         PS14M         PHLP HD SCR M6-1.0 X 12           538         P9983538         TENSION CYLINDER 63 X 40ST           539         P9983539         PLASTIC CONNECT C6-1/8"	530	P9983530	CONNECTOR
533         P9983533         PRESSURE GAUGE к-1000FR2           534         P9983534         PLASTIC CONNECT L6-1/4"           535         P9983535         AIR COCK 1/4" X 5/16"           536         PW03M         FLAT WASHER 6MM           537         PS14M         PHLP HD SCR M6-1.0 X 12           538         P9983538         TENSION CYLINDER 63 X 40ST           539         P9983539         PLASTIC CONNECT C6-1/8"	531	PS25M	PHLP HD SCR M47 X 35
534         P9983534         PLASTIC CONNECT L6-1/4"           535         P9983535         AIR COCK 1/4" X 5/16"           536         PW03M         FLAT WASHER 6MM           537         PS14M         PHLP HD SCR M6-1.0 X 12           538         P9983538         TENSION CYLINDER 63 X 40ST           539         P9983539         PLASTIC CONNECT C6-1/8"	532	PN04M	HEX NUT M47
535         P9983535         AIR COCK ¼" X 5/16"           536         PW03M         FLAT WASHER 6MM           537         PS14M         PHLP HD SCR M6-1.0 X 12           538         P9983538         TENSION CYLINDER 63 X 40ST           539         P9983539         PLASTIC CONNECT C6-1/8"	533	P9983533	PRESSURE GAUGE K-1000FR2
536         PW03M         FLAT WASHER 6MM           537         PS14M         PHLP HD SCR M6-1.0 X 12           538         P9983538         TENSION CYLINDER 63 X 40ST           539         P9983539         PLASTIC CONNECT C6-1/8"	534	P9983534	
537         PS14M         PHLP HD SCR M6-1.0 X 12           538         P9983538         TENSION CYLINDER 63 X 40ST           539         P9983539         PLASTIC CONNECT C6-1/8"	535	P9983535	AIR COCK 1/4" X 5/16"
538         P9983538         TENSION CYLINDER 63 X 40ST           539         P9983539         PLASTIC CONNECT C6-1/8"		PW03M	FLAT WASHER 6MM
539 P9983539 PLASTIC CONNECT C6-1/8"	537	PS14M	
	538	P9983538	
540 P9983540 SILENCER 1/4"	539	P9983539	
	540	P9983540	SILENCER 1/4"





\* Optional Parts

REF	PART #	DESCRIPTION
601	P9983601	CONTROL BOX
602	P9983602	LOCK
603	P9983603	CONTROL PANEL
604	P9983604	CONTACTOR CN-25 SAND
604-1	P9983604-1	THERMAL RH 18/26
605	P9983605	CONTACTOR CN-11 MAIN
606	P9983606	CONTACTOR CN-11 FEED
606-1	P9983606-1	THERMAL RH 10E/1.7C
608	P9983608	CURRENT TRANSFORMER
609	P9983609	TERMINAL BOARD
611	P9983611	TERMINAL BOARD
612	P9983612	TERMINAL BOARD
617	P9983617	GROUND WIRE PANEL
618	P9983618	WIRE SLEEVE
619	P9983619	WIRE SLEEVE
620	P9983620	WIRE SLEEVE
621	P9983621	WIRE SLEEVE
622	P9983622	WIRE SLEEVE
623	P9983623	WIRE SLEEVE
624	P9983624	WIRE CONNECTOR (IN)
625	PS14M	PHLP HD SCR M6-1.0 X 12
626	PN01M	HEX NUT M6-1.0
701	P9983701	PLASTIC COVER
702	PN03M	HEX NUT M8-1.25
703	PLW04M	LOCK WASHER 8MM
704	PW01M	FLAT WASHER 8MM
705	P9983705	TABLE SUPPORT

REF	PART #	DESCRIPTION
706	P9983706	SUPPORT LINING
707	PS11M	PHLP HD SCR M6-1.0 X 16
708	PW03M	FLAT WASHER 6MM
709	PN01M	HEX NUT M6-1.0
710	P9983710	RETRACTABLE ROD
711	PSS10M	SETSCREW M10-1.5 X 20
712	PN02M	HEX NUT M10-1.5
713	P9983713	ECCENTRIC SHAFT LH
714	PN27M	HEX NUT LH M10-1.5
715	PLW06M	LOCK WASHER 10MM
716	P9983716	ECCENTRIC SHAFT RH
717	PN02M	HEX NUT M10-1.5
718	PSB62M	CAP SCREW M10-1.5 X 12
719	PLW06M	LOCK WASHER 10MM
720	PW04M	FLAT WASHER 10MM
721	P9983721	INFEED TABLE FRAME
722	PR47M	EXT RETAINING RING 13MM
723	P9983723	ROLLER BUSHING
724	P9983724	ROLLER SHAFT
725	P9983725	CONVEYOR ROLLER
726	PRP28M	PIN 5 X 40MM
727	P9983727	EMERGENCY BRAKE PANEL
728	P9983728	KNOB
729	P9983729	BRAKE ROD
730	PR39M	EXT RETAINING RING 8MM
731	P9983731	SPRING

## TROUBLESHOOTING

SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION
Motor will not start.	<ol> <li>Low voltage.</li> <li>Open circuit in motor or loose connections.</li> </ol>	<ol> <li>Check power line for proper voltage.</li> <li>Inspect all lead connections on motor for loose or open connections.</li> </ol>
Motor will not start; fuses or circuit breakers blow.	<ol> <li>Short circuit in line cord or plug.</li> <li>Short circuit in motor or loose connections.</li> <li>Incorrect fuses or circuit breakers in power line.</li> </ol>	<ol> <li>Inspect cord or plug for damaged insulation and shorted wires.</li> <li>Inspect all connections on motor for loose or shorted terminals or worn insulation.</li> <li>Install correct fuses or circuit breakers.</li> </ol>
Motor overheats.	<ol> <li>Motor overloaded.</li> <li>Air circulation through the motor restricted.</li> </ol>	<ol> <li>Reduce load on motor.</li> <li>Clean out motor to provide normal air circulation.</li> </ol>
Motor stalls (resulting in blown fuses or tripped cir- cuit).	<ol> <li>Short circuit in motor or loose connections.</li> <li>Low voltage.</li> <li>Incorrect fuses or circuit breakers in power line.</li> <li>Motor overloaded.</li> </ol>	<ol> <li>Inspect connections on motor for loose or shorted terminals or worn insulation.</li> <li>Correct the low voltage conditions.</li> <li>Install correct fuses or circuit breakers.</li> <li>Reduce load on motor.</li> </ol>
Machine slows when oper- ating.	<ol> <li>Feed rate too high.</li> <li>Depth of cut too great.</li> </ol>	<ol> <li>Feed workpiece slower and watch load meter.</li> <li>Reduce depth of cut and watch load meter.</li> </ol>
Loud, repetitious noise com- ing from machine	<ol> <li>Pulley set screws or keys are miss- ing or loose.</li> <li>Motor fan is hitting the cover.</li> <li>V-belt is defective.</li> </ol>	<ol> <li>Inspect keys and set screws. Replace or tighten if necessary.</li> <li>Tighten fan or shim cover.</li> <li>Replace V-belt. See <i>Maintenance</i> section.</li> </ol>
Machine is loud, overheats or bogs down in the cut.	<ol> <li>Excessive depth of cut.</li> <li>Dull sanding belt.</li> </ol>	<ol> <li>Decrease depth of cut.</li> <li>Replace sanding belt.</li> </ol>
Edges of wood are rounded.	1. Excessive depth of cut.	1. Reduce depth of cut.
Uneven thickness from left to right of board.	<ol> <li>Feed table not parallel to sanding roller.</li> <li>Feed belt is worn.</li> </ol>	<ol> <li>Adjust the table.</li> <li>Replace feed belt.</li> </ol>
Workpiece slips on feed belt.	<ol> <li>Pressure rollers set too high.</li> <li>Dirty feed belt.</li> <li>Feed belt is worn.</li> </ol>	<ol> <li>Lower pressure rollers.</li> <li>Clean feed belt.</li> <li>Replace feed belt.</li> </ol>
Straight strip of notches on workpiece.	1. Pressure rollers are dirty or dam- aged.	1. Clean or repair pressure rollers.
Snake shaped marks on workpiece.	1. Sanding belt damaged or dirty.	1. Clean or replace sanding belt.

### 

For your safety, turn switch *OFF* and disconnect the machine from power source before any troubleshooting. Please refer to the adjustment section to make corrections.

## TROUBLESHOOTING

SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION
Lines across width of work- piece.	<ol> <li>Sanding belt seam is open or dam- aged.</li> </ol>	1. Repair or replace sanding belt.
More material is removed from the end of workpiece than the length (snipe).	<ol> <li>Workpiece is not supported as it comes out of sander.</li> <li>Pressure rollers not set correctly.</li> </ol>	<ol> <li>Hold workpiece up with your hands as it comes out, or set up an outfeed table for your workpiece after it comes out.</li> <li>Set pressure rollers as described in Section 8: Service Adjustments.</li> </ol>
Glossy spots or streaks on workpiece.	<ol> <li>Worn sanding belt.</li> <li>Rear pressure roller too low.</li> </ol>	<ol> <li>Replace sanding belt.</li> <li>Raise rear pressure roller. (See warning in Pressure Roller section!)</li> </ol>
Sanding belt clogs quickly.	<ol> <li>Sanding belt grit too small for par- ticular job.</li> <li>Excessive depth of cut.</li> <li>Wood is too moist.</li> </ol>	<ol> <li>Replace with a coarser grit sanding belt.</li> <li>Reduce depth of cut.</li> <li>Allow wood to dry out.</li> </ol>
Sanding belt does not ten- sion correctly; rollers slip under belt.	<ol> <li>Low air pressure.</li> <li>Air leaks in system.</li> </ol>	<ol> <li>Adjust air pressure to 75 PSI at primary regulator.</li> <li>Inspect all hoses and connections for leaking air; use water on suspected area to detect bubbles.</li> </ol>
Sanding belt runs off to one side, stopping the sander.	<ol> <li>Air eye fork clogged.</li> <li>Oscillation return valve closed.</li> <li>Oscillation timing incorrect.</li> </ol>	<ol> <li>Clean the intake hole on the air eye fork.</li> <li>Open valve.</li> <li>Adjust oscillation timing.</li> </ol>
Sanding belt will not start.	<ol> <li>Sanding belt is not tensioned.</li> <li>Limit switches engaged.</li> <li>Emergency stop plate engaged.</li> </ol>	<ol> <li>Tension sanding belt.</li> <li>Center sanding belt so it is not touching the limit switches.</li> <li>Make sure emergency stop switch is released.</li> </ol>
Poor, non-aggressive sand- ing results.	<ol> <li>Platen adjusted incorrectly, above bottom surface level of lower sand- ing rollers.</li> <li>Sanding belt loaded with sawdust.</li> <li>Sanding belt worn out.</li> </ol>	<ol> <li>Adjust platen on the same plane as, or lower than, bottom surface level of lower rollers.</li> <li>Clean sanding belt to unload sawdust.</li> <li>Replace sanding belt with a new one.</li> </ol>
Conveyor belt not tracking in center.	<ol> <li>Conveyor rollers moved out of adjustment.</li> </ol>	1. Re-adjust conveyor rollers.
Conveyor belt slipping.	<ol> <li>Conveyor rollers have incorrect tension.</li> <li>Conveyor rollers contaminated with dirt or dust.</li> </ol>	
Emergency brake stops slow.	<ol> <li>Air pressure incorrect.</li> <li>Air leak in system.</li> <li>Brake rotor contaminated with oil.</li> <li>Brake pads worn out.</li> </ol>	<ol> <li>Adjust air pressure to 75 PSI.</li> <li>Find and fix air leaks.</li> <li>Clean brake rotor with automotive brake parts cleaner.</li> <li>Replace brake pads.</li> </ol>
Grinding noise when brak- ing.	1. Brakes severely worn out.	1. Replace brake pads, have rotor turned (possibly replaced).

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For your safety, turn switch *OFF* and disconnect the machine from power source before any troubleshooting. Please refer to the adjustment section to make corrections.

# WARRANTY AND RETURNS

Grizzly Industrial, Inc. warrants every product it sells for a period of **1 year** to the original purchaser from the date of purchase. This warranty does not apply to defects due directly or indirectly to misuse, abuse, negligence, accidents, repairs or alterations or lack of maintenance. This is Grizzly's sole written warranty and any and all warranties that may be implied by law, including any merchantability or fitness, for any particular purpose, are hereby limited to the duration of this written warranty. We do not warrant or represent that the merchandise complies with the provisions of any law or acts unless the manufacturer so warrants. In no event shall Grizzly's liability under this warranty exceed the purchase price paid for the product and any legal actions brought against Grizzly shall be tried in the State of Washington, County of Whatcom.

We shall in no event be liable for death, injuries to persons or property or for incidental, contingent, special, or consequential damages arising from the use of our products.

To take advantage of this warranty, contact us by mail or phone and give us all the details. We will then issue you a "Return Number," which must be clearly posted on the outside as well as the inside of the carton. We will not accept any item back without this number. Proof of purchase must accompany the merchandise.

The manufacturers reserve the right to change specifications at any time because they constantly strive to achieve better quality equipment. We make every effort to ensure that our products meet high quality and durability standards and we hope you never need to use this warranty.

Please feel free to write or call us if you have any questions about the machine or the manual.

Thank you again for your business and continued support. We hope to serve you again soon.

### WARRANTY CARD

Street	Nam					
Phone Number         E-Mail         FAX           MODEL #         Sorial#         Order#           The following information is given or voluntary basis. It will be used for marketing purposes to bejus develop better products and services. Of course all information is strictly confidential.         10.           1.         How did you learn shout us?         10.         Which benchop tools do you cwn? Check all that apply.	Stree	et				
MODEL #Serial#Order#					State_	Zip
The following information is given on a volumary basis. It will be used for marketing purposes to help us develop better products and services. Of course all information is strictly confidential.         1.       Hew disputer matchines strictly confidential.         2.       Mich benchitop bolis do you own? Check all that apply.	Phon	e Number	E-Mail		FAX	
all information is strictly confidential. <ul> <li>How did you learn about us?</li> <li>Advertisement</li> <li>Chateg</li> <li>Conter</li> <li>Other</li> </ul> <li>Which deficiement</li> <li>Conter</li> <li>Other</li> <li>Which deficiement</li> <li>Conter</li> <li>Which deficiement</li> <li>Conter</li> <li>Stop Notes</li> <li>Binple Notes</li> <li>Binple Notes</li> <li>Binple Notes</li> <li>Binple Notes</li> <li>Woodwork and Note Notes</li> <li>Binple Notes</li> <li>Woodwork and Notes</li> <li>Binple Notes</li> <li>Woodwork and Notes</li> <li>Binple Notes</li> <li>Binple Notes</li> <li>Stop Notes</li> <li>Binple Notes</li> <li>Binple Notes</li> <li>Stop Notes</li> <li>Stop Notes</li> <li>Stop Notes</li> <li>Binple Notes</li> <li>Stop Notes</li> <l< th=""><th>MOD</th><th>EL #</th><th>Serial#</th><th></th><th>Order#</th><th></th></l<>	MOD	EL #	Serial#		Order#	
1. How did you lear about us?       10. Which benchlop tools do you own? Check all that apply.			voluntary basis. It will be used for m	narketing	purposes to help us develop better	r products and services. Of course
CatalogCatalogCard DeckS <sup>-</sup> P Dill PressMhi LafteMhi LafteMhi LafteMhi LafteMhi LafteNhi LafteN	1.	How did you learn about us?		10.	Which benchtop tools do you own?	Check all that apply.
CatalogCatalogCard DeckS <sup>-</sup> P Dill PressMhi LafteMhi LafteMhi LafteMhi LafteMhi LafteNhi LafteN		Advertisement	Friend		1" x 42" Belt Sander	6" - 8" Grinder
B* - 10* Bandsaw       Scinl Saw         2.       Which of the following magazines do you subscribe to.						
Conter		World Wide Web			8" Table Saw	10" - 12" Thickness Planer
<ul> <li>2. Which of the following magazines do you subscribe to.</li> <li>American WoodookferTractical Homeower</li></ul>		Other			Disc/Belt Sander	
American WoodworkingPractical Moneowner CabinetmakerShotes	2.	Which of the following magazines of	do you subscribe to.			
CabinetmakerSnop Notes		American Woodworker	Practical Homeowner			
Fine Komebuiking       WOCD       12.       Which portable/hand held power tools do you own? Check all that apply.         Fine Koodworking       Woodenboat       Orbital Sander       Orbital Sander         Journal of Light Construction       Woodworking       Declaration       Orbital Sander         Popular Science       Woodworking       Declaration       Declaration				11.	How many of the machines checked	d above are Grizzly?
Fire Woodworking       Woodshop Nwws         Home Handyman       Woodshop Nwws         Journal of Light Construction       Woodshop Nwws         Journal of Light Construction       Woodwork or         Popular Mechanics       Woodwork or         Popular Mechanics       Woodwork or         Popular Science       Woodwork or         Popular Science       Woodwork or         Popular Mechanics       Workbench         Other				12	Which portable/band held power to	als do you own? Check all that apply
Home Handyman       Woodshop News         Journal I Light Construction       Woodshop News         Old House Journal       Woodworker         Popular Science       Woodworker's Journal         Popular Science       Woodworker's Journal         Other       Detail Sander         3.       Which of the following woodworking/remodeling shows do you watch?         Backyard America       The New Yankee Workshop         The American Woodworker       Woodworker         Other       Other         30.000-589.999       \$60,000-589.999         \$50,000-549.999       \$50,000-549.999         \$50,000-549.999       \$90,000 + 49         \$50,000-549.999       \$90,000 + 49         \$50,000-549.999       \$90,000 + 49         \$50,000-549.999       \$90,000 + 49         \$50,000-549.999       \$90,000 + 49         \$50,000-549.999       \$90,000 + 49         \$50,000-549.999       \$90,000 + 49         \$50,000-549.999       \$90,000 + 49         \$50,000-549.999       \$90,000 + 49         \$50,000-549.999       \$90,000 + 49         \$50,000-549.999       \$90,000 + 49         \$50,000-549.999       \$90,000 + 49         \$60 How long have you been a woodworker?       Do you think your pur				12.	which pollable/hand held power loo	bis do you own: oneck all that apply.
dumai of Light Construction      Woodwrith      Papular Mechanics      Papular Mechanic					Belt Sander	Orbital Sander
Popular Mechanics       Woodworker         Popular Science       Woodworker's Journal         Popular Woodworking       Workbench						
Papular Selencating Saw       Popular Selencating Saw         Popular Woodworking       Workbench         Other       Other         3. Which of the tollowing woodworking/remodeling shows do you watch?       Other         Backyard America      The New Yankee Workshop        The American Woodworker      The New Yankee Workshop        The American Woodworker      Woodwright's Shop        Other						
_Oher						
3.       Which of the following woodworking/remodeling shows do you watch?       13.       What machines/supplies would you like Grizzly Industrial to carry?        Backyard America      The New Yankee Workshop       13.       What machines/supplies would you like Grizzly Industrial to carry?        Home Time      This Old House					 Other	
Backyard America Home Time       The New Yankee Workshop This Old House The America Woodworker         What is your annual household income?	з			13		like Grizzly Industrial to carry?
Home Time       This Old House        The American Woodworker      Woodwright's Shop        Other	0.	C .		10.	what machines/supplies would you	
Other						
4.       What is your annual household income?						
	4.		ome?			
				14	What new accessories would you li	ke Grizzly Industrial to carry?
\$50,000-\$59,999       _\$90,000 +         5.       What is your age group?        20-29       _50-59         _30-39       _60-69         _40-49       _70 +         6.       How long have you been a woodworker?        0 - 2 Years       _8 - 20 Years        2 - 8 Years       _20+ Years        2 - 8 Years      20+ Years        2 - 8 Years      16.         Do you think your purchase represents good value?         Yes      No         Simple      Advanced         Intermediate       Master Craftsman         8.       What stationary woodworking tools do you own? Check all that apply.         Air Compressor       Panel Saw         Duit Collector       Radial Arm Saw         Duit Collector       Shaper         Horizontal Boring Machine       Spindle Sander         Other						
_20-29       _50-59         _30-39       _60-69         _40-49       _70 +         6.       How long have you been a woodworker?         _0 - 2 Years       _8 - 20 Years         _2 - 8 Years       _20+ Years         _2 - 8 Years       _20+ Years         7.       How would you rank your woodworking skills?        Yes      No         Simple      Advanced        Intermediate      Master Craftsman         8.       What stationary woodworking tools do you own? Check all that apply.        Yes      No        Yes      No						
30-39      60-69        40-49      70 +         6.       How long have you been a woodworker?        0 - 2 Years      8 - 20 Years        2 - 8 Years      20+ Years        2 - 8 Years      20+ Years        Yes      No         Simple      Advanced        Intermediate      Master Craftsman         8.       What stationary woodworking tools do you own? Check all that apply.        Yes      No        1Press      No        Dust Collector      Shaper        Jointer	5.	What is your age group?				
30-39      60-69        40-49      70 +         6.       How long have you been a woodworker?        0 - 2 Years      8 - 20 Years        2 - 8 Years      20+ Years        2 - 8 Years      20+ Years        Yes      No         Simple      Advanced        Intermediate      Master Craftsman         8.       What stationary woodworking tools do you own? Check all that apply.        Yes      No        1Press      No        Dust Collector      Shaper        Jointer		20-29	50-59			
40-49      70 +       15.       What other companies do you purchase your tools and supplies from?         6.       How long have you been a woodworker?						
0 - 2 Years      8 - 20 Years        2 - 8 Years      20+ Years        2 - 10 Years      20        2 - 10 Years      200        2 - 10 Years      200 <tr< td=""><td></td><td>40-49</td><td>70 +</td><td>15.</td><td>What other companies do you purcl</td><td>hase your tools and supplies from?</td></tr<>		40-49	70 +	15.	What other companies do you purcl	hase your tools and supplies from?
2 - 8 Years       20+ Years       16.       Do you think your purchase represents good value?         7.       How would you rank your woodworking skills?      Yes      No        Simple      Advanced       17.       Would you recommend Grizzly Imports to a friend?        Intermediate      Master Craftsman       17.       Would you recommend Grizzly Imports to a friend?         8.       What stationary woodworking tools do you own? Check all that apply.      Yes      No	6.	How long have you been a woodw	orker?			
Image: Constraint of the second se						
		2 - 8 Years	20+ Years	16.	Do you think your purchase represe	ents good value?
Intermediate       Master Craftsman       17.       Would you recommend Grizzly Imports to a friend?         8.       What stationary woodworking tools do you own? Check all that apply.      Yes      No        Air Compressor       Panel Saw      No        Band Saw      Planer      No        Drill Press      Power Feeder      Yes      No        Dust Collector      Shaper      Yes      No        Jointer      Table Saw      Yes      No        Lathe      Vacuum Veneer Press      No        Mortiser      Wide Belt Sander      No        Other	7.	How would you rank your woodwor	rking skills?		Yes	No
<ul> <li>8. What stationary woodworking tools do you own? Check all that apply.</li> <li>YesNo</li> <li>Air CompressorPanel SawPlanerDrill PressPower FeederVide-belt SanderRadial Arm SawDust CollectorShaperNo</li> <li>YesNo</li> <li>18. Would you allow us to use your name as a reference for Grizzly custome in your area? Note: We never use names more than three times.</li> <li>YesNo</li> <li>19. Comments:</li></ul>				17.	Would you recommend Grizzly Imp	orts to a friend?
Air Compressor      Panel Saw        Band Saw      Planer        Drill Press      Power Feeder        Wide-belt Sander      Radial Arm Saw        Dust Collector      Shaper        Table Saw      No        Lathe      Vacuum Veneer Press        Other      Wide Belt Sander	0				Yes	No
Air Compressor      Paner Saw       in your area? Note: We never use names more than three times.        Drill Press      Power Feeder      Yes      No        Dust Collector      Shaper       19.       Comments:	0.	What stationary woodworking tools	do you own? Check all that apply.			
Bailo SawPlafferPower FeederNo Wide-belt SanderRadial Arm SawYesNo Dust CollectorShaper19. Comments: Horizontal Boring MachineSpindle Sander19. Comments: JointerTable Saw LatheVacuum Veneer Press MortiserWide Belt Sander		Air Compressor	Panel Saw	18.		
Wide-belt Sander      Radial Arm Saw      Yes      No        Dust Collector      Shaper       19.       Comments:        Jointer      Table Saw					in your area? Note. We never use	names more than three times.
Wide-Deit Sander      Hadia Arm Saw        Dust Collector      Shaper        Horizontal Boring Machine      Spindle Sander        Jointer      Table Saw        Lathe      Vacuum Veneer Press        Mortiser      Wide Belt Sander        Other					Yes	No
Horizontal Boring Machine      Spindle Sander       19. Comments:						
Jointer    Table Saw      Lathe    Vacuum Veneer Press      Mortiser    Wide Belt Sander      Other				19.	Comments:	
MortiserWide Belt Sander						
Other						
		Mortiser	Wide Belt Sander			
		Other				
	9.	How many of your woodworking m	achines are Grizzlv?			

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